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No. 9

NEW YORK UNIVERSITY BULLETIN

UNIVERSITY AND BELLEVUE
HOSPITAL MEDICAL COLLEGE

ANNOUNCEMENTS FOR THE YEAR

1920-1921

SESSION OPENS SEPTEMBER 15, 1920

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The College Book Room

The text books used in the different courses change from year to year. Books recommended may be obtained in the college book room which is run for the convenience of the students. The proceeds from the sale of books are applied to the library fund and are used for the purchase of books of reference for the use of the faculty and students.

Correspondence

It would be to the advantage of students if they would register a few days in advance of the opening exercises, secure boarding places, and purchase books, so that their studies may not be interrupted in the beginning. The office is open daily from 9 a.m. to 5 p.m.

Letters requesting information should be addressed to

JOHN WYCKOFF, M.D., Secretary
University and Bellevue Hospital Medical College
26th Street and First Avenue
New York, N. Y.

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Information as to board may be obtained from the secretary of the Intercollegiate Young Men's Christian Association, 129 Lexington Avenue.

NEW YORK UNIVERSITY

UNIVERSITY AND BELLEVUE
HOSPITAL MEDICAL COLLEGE

BULLETIN SERIES

VOL. XX, No. 9, DATED APRIL 17, 1920

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CALENDAR

1920

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1921

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THE HOLIDAYS IN BLACK FACE ARE THOSE OBSERVED BY EVERY SCHOOL OF THE UNIVERSITY. THE PRINTED CALENDAR ON THE PAGE OPPOSITE IS MORE DETAILED.

CALENDAR

1920

Sessions begin	Wednesday	September 15
Election Day: Holiday	Tuesday	November 2
Thanksgiving Recess	Thursday to Saturday	November 25-27
Christmas Recess	Monday to Saturday	December 20- January 1

1921

Washington's Birthday:		
Holiday	Tuesday	February 22
Easter Recess	Monday to Saturday	March 21-26
Commencement		
Alumni Day	Saturday	June 4
Baccalaureate Service	Sunday	June 5
Conferring of Degrees	Wednesday	June 8

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Director of Surgical Service, Third Division, Bellevue Hospital; Visiting Surgeon, St. Vincent's Hospital; Consulting Surgeon, Englewood Hospital

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Visiting Laryngologist, New York Throat and Nose Hospital; Assistant Attending Laryngologist and Otologist, Bellevue Hospital

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 Sc.B., College of the City of New York; A.M., Ph.D., Columbia
 Pathological Chemist, Bellevue Hospital
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 A.B., M.D., Columbia
 Assistant Director, Research Laboratories, Department of Health, City of New York
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 A.B., M.D., Cornell
 Assistant Visiting Surgeon, Bellevue and St. Vincent's Hospitals
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 Director of Medical Service and Visiting Physician, Bellevue Hospital
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M.D., Columbia; F.A.C.S.
Associate Aural Surgeon, St. Luke's Hospital
Assistant Surgeon in Otolaryngology, New York Eye and Ear Infirmary
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A.B., A.M., Dartmouth; M.D., New York
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M.D., New York
Visiting Surgeon, Harlem Hospital; Consulting Surgeon, Nassau, Mineola, and Memorial (New London) Hospitals
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A.B., M.D., Columbia
Attending Physician, Mount Sinai Hospital; Consulting Physician, Bedford Sanitarium, Montefiore Home, Sprain Ridge Hospital, Yonkers, National Jewish Hospital for Consumptives, Denver, Colorado
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Sc.B., College of the City of New York; M.D., Columbia; F.R.M.S.
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A.B., Harvard; M.D., Columbia
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M.D., College of Physicians and Surgeons, Baltimore
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M.D., New York
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M.D., New York
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M.D., New York
Consulting Pathologist and Attending Physician, Jewish Hospital, Brooklyn

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M.D., Long Island College Hospital; F.A.C.S.
Assistant Visiting Gynecologist, Bellevue Hospital; Associate Surgeon, St. Mary's Hospital, Brooklyn

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Assistant Visiting Surgeon, Bellevue Hospital

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Assistant Visiting Surgeon, Bellevue Hospital; Associate Surgeon, Hospital for Ruptured and Crippled; Assistant Surgeon, Willard Parker Hospital

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M.D., Columbia
Pediatrist, St. Luke's Hospital; Physician, Presbyterian Home for the Aged

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M.D., Maryland
Assistant Surgeon, Ear Department, New York Eye and Ear Infirmary and Oto-Laryngologist, West Side Dispensary and Hospital

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M.D., New York

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M.D., Columbia
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A.B., M.D., Virginia
Assistant Visiting Gynecologist, Bellevue Hospital; Assistant Visiting Obstetrician, New York Nursery and Child's Hospital

ARTHUR JOHN HUEY *Laryngology*
M.D., New York
Attending Laryngologist and Aural Surgeon, Riverside Hospital; Consulting Laryngologist and Otologist, United States Public Health Service

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JOHN JOSEPH ROTHWELL

Dermatology

M.D., New York
Assistant Visiting Dermatologist, Bellevue Hospital
Assistant Physician, New York Skin and Cancer Hospital

EUGENE FAIRCHILD RUSSELL

Life Insurance Examination

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Clinical Pathology

M.D., Albany Medical College

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Hygiene

M.D., Tufts

WILLIAM STEINACH

Nervous Diseases

A.B., College of the City of New York; M.D., Columbia
Visiting Neurologist, City Hospital

MILLS STURTEVANT

Medicine

A.B., Dartmouth; M.D., Columbia
Adjunct Assistant Attending Physician, Bellevue Hospital

CORNELIUS JOHN TYSON

Medicine

M.D., New York
Adjunct Assistant Attending Physician, Bellevue Hospital

Instructors

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Clement Jacob Halpern, M.D.	<i>Dermatology and Syphilology</i>
Winfred Morgan Hartshorn, A.B., M.D.	<i>Pediatrics</i>
James Patrick Hennessy, M.D.	<i>Gynecology</i>
William M. Higgins, M.D.	<i>Gynecology</i>
Sergius Michailovitch Ingerman, M.D.	<i>Ophthalmology</i>
Philip Jordan, M.D.	<i>Surgery</i>
Alfred Kahn, M.D.	<i>Otology</i>
Henry J. Keller, M.D.	<i>Orthopedic Surgery</i>
Ben Witt Key, A.B., M.D.	<i>Ophthalmology</i>
Edward King, M.D.	<i>Surgery</i>
George August Koenig, M.D.	<i>Surgery</i>
Meyer Julius Kutisker, M.D.	<i>Surgery</i>
Louis Charles Lange, M. D.	<i>Operative Surgery</i>
Thomas E. Lavell, M.D.	<i>Gynecology</i>
Sylvester R. Leahy, M.D.	<i>Psychiatry</i>
Oswald Swinney Lowsley, A.B., M.D.	<i>Genito-Urinary Surgery</i>
Joseph Edward Lombard, M.D.	<i>Anesthesia</i>
William Caruth MacTavish	<i>Chemistry</i>
John Francis McGrath, M.D.	<i>Gynecology</i>
Walter Harold McNeill, Jr., M.D.	<i>Genito-Urinary Surgery</i>
Attilio Milici, M.D.	<i>Surgery</i>
John Miller, M.D.	<i>Medicine</i>
Ralph Wendell Mitchell, A.B., M.D.	<i>Pediatrics</i>
Howard Ruckman Mixsell, A.B., M.D.	<i>Pediatrics</i>
Josephine Munson, A.B.	<i>Chemistry</i>
John Nelson, M.D.	<i>Surgery</i>
Willa C. Noble	<i>Bacteriology</i>
John Joseph Nutt, B.L., M.D.	<i>Orthopedic Surgery</i>
Ralph W. Nutter, M. D.	<i>Obstetrics</i>
Harry Ephraim Plummer, M.D.	<i>Genito-Urinary Surgery</i>
Floyd Chrisman Raymond, Ph.G.	<i>Pharmacy</i>
Arthur Mitchell Reich, M.D.	<i>Obstetrics</i>

Edward John Riley, M.D.	<i>Medicine</i>
Edward Sherrard Rimer, M.D.	<i>Pediatrics</i>
Bernard Leo Robins, M.D.	<i>Medicine</i>
Herman Cady Russell, M.D.	<i>Surgery</i>
Louis Bertram Sachs, M.D.	<i>Pediatrics</i>
Louis Sanman, Sc.B., M.D.	<i>Surgery</i>
Benjamin Schwartz, M.D., LL.B.	<i>Pathology</i>
Louis Lawrence Shapiro, M.D.	<i>Medicine</i>
Irwin Edward Siris, M.D.	<i>Operative Surgery</i>
George Norbert Slattery, A.B., M.D.	<i>Medicine</i>
Francis Washington Sovak, Sc.B., M.D.	<i>Gynecology</i>
Benjamin Spector	<i>Anatomy</i>
Joel Sperry	<i>Medicine</i>
Alexander Raymond Stevens, A.B., M.D.	<i>Genito-Urinary Surgery</i>
Leigh F. Sturges, M.D.	<i>Laryngology</i>
Morris M. Sweeney, M.D.	<i>Surgery</i>
Alexander Berthold Timm, A.B., M.D.	<i>Gynecology</i>
Webb William Weeks, M.D.	<i>Ophthalmology</i>
Charles Wheeler Walker, Sc.B., M.D.	<i>Surgery</i>
T. B. Weinberg, M.D.	<i>Medicine</i>
Filip Johan Wettervik, M.D.	<i>Orthopedic Surgery</i>
Isadore Kalisch Weiner, A.B., M.D.	<i>Otology</i>
Harriet L. Wilcox	<i>Bacteriology</i>
Abraham Zingher, M.D., D.P.H.	<i>Bacteriology</i>

Assistants

Charles G. Darlington, M.D.	<i>Pathology</i>
E. I. Diamond, M.D.	<i>Dental Anatomy</i>
Florence Knacke	<i>Bacteriology</i>
Isadore Jesse Levy, Ph.B., M.D.	<i>Clinical Medicine</i>
Ralph M. Fellows, A. B.	<i>Physiology and Pharmacology</i>
<hr/>	
G. W. Partridge, M.D.	<i>Pathology</i>
Charles Rogowitz, M.D.	<i>Anatomy</i>
John Elden Sawhill, A.B., M.D.	<i>Anatomy</i>
Ruth Alida Thomas, A.B.	<i>Medicine</i>
Lillian Hubinger	<i>Bacteriology</i>
Manuel Silver	<i>Technician in Anatomy</i>
Matthew W. Szatkowski	<i>Technician in Physiology</i>
	<i>Superintendent of Buildings</i>

THE COLLEGE CLINIC

Department of Medicine

Chief of Clinic and Medical Superintendent

W. J. Pulley, M.D.

Attending Physicians

L. H. Fisher, M.D.

M. Barshak, M.D.

T. B. Weinberg, M.D.

S. Gross, M.D.

J. Goldey, M.D.

J. Miller

F. G. Schaible

Assistant Attending Physicians

S. Danzer, M.D.

L. Hochman, M.D.

Department of Surgery

Chiefs of Clinic

L. Sanman, M.D.

J. Nelson, M.D.

L. C. Lange, M.D.

H. C. Russell, M.D.

Attending Surgeons

H. C. Falk, M.D.

P. Jordan, M.D.

A. Milici, M.D.

M. J. Kutisker, M.D.

H. B. Eisberg, M.D.

Department of Gynecology

Attending Gynecologists

A. B. Timm, M.D.

A. Anesh, M.D.

Department of Diseases of Children

Chief of Clinic

W. M. Hartshorn, M.D.

Attending Physicians

R. W. Mitchell, M.D.

S. Gross, M.D.

L. B. Sachs, M.D.

E. S. Rimer, M.D.

Assistant Attending Physician

G. E. Lemmer, M.D.

Social Service Workers

Mildred A. Mitchell

Mrs. A. L. Howard

Department of Neurology*Attending Neurologists*

W. Steinach, M.D.

Assistant Attending Neurologists

D. H. Barash, M.D.

J. Leo, M.D.

Masseuse

Helen Hilf

Department of Laryngology*Chief of Clinic*

A. J. Huey, M.D.

Attending Laryngologist

L. F. Sturges, M.D.

Assistant Attending Laryngologist

B. Dubovsky, M.D.

Clinical Assistant

M. J. Gottlieb, M.D.

Department of Dermatology and Syphilology*Chief of Clinic*

J. J. Rothwell, M.D.

Attending Dermatologists and Syphilologists

C. J. Halpern, M.D.

G. A. Cherry, M.D.

P. E. Bechet, M.D.

J. H. O'Connor, M.D.

Assistant Attending Dermatologists and Syphilologist

H. F. Marsh, M.D.

J. F. Fraser, M.D.

C. G. Darlington, M.D.

Marie LeFort, M.D.

I. Apfelberg, M.D.

E. R. Maloney, M.D.

E. H. Marsh, M.D.

Nurse

R. C. Glogau

Department of Genito-Urinary Diseases*Chief of Clinic*

W. E. Bailey, M.D., B.Sc.

Attending Surgeon

H. E. Plummer, M.D.

Assistant Attending Surgeons

B. Davidson, M.D.

J. H. O'Connor, M.D.

H. Hausman, M.D.

I. Apfelberg, M.D.

Nurse

A. A. Carrillo

Department of Ophthalmology

Chief of Clinic

H. W. Wandless, M.D.

Attending Ophthalmologists

S. Ingerman, M.D.

B. W. Key, M.D.

W. W. Weeks, M.D.

Department of Otology

Chief of Clinic

C. E. Perkins, M.D.

Attending Otologists

A. Kahn, M.D.

I. Wiener, M.D.

Clinical Assistant

W. J. Cranston, M.D.

Department of Diseases of the Rectum

Chief of Clinic

E. I. Huppert, M.D.

Assistant Attending Surgeons

M. L. Goodman, M.D.

J. F. Montague, M.D.

Department of Orthopedic Surgery

Chief of Clinic

F. J. Wettervik, M.D.

Attending Surgeons

H. Keller, M.D.

J. J. Nutt, M.D.

Clinical Assistants

R. Burbank, M.D.

W. H. Irish, M.D.

H. D. Urquhart, M.D.

Masseuse

Eleanor Kearney

Masseur

T. A. Melander

Clerk

Kate Keenly

College Clinic Operating Room

Executive Surgeon

L. M. Hurd, M.D.

Department of Roentgenology

Director

L. T. LeWald, M.D.

Technician

Florida Wyble

Clerk

Lillian L. McGuinness

Apothecary

F. C. Raymond

Assistant Apothecary

F. D. Lurch

Head Nurse

Mrs. A. E. Graham

Nurses

Ada Terwilliger

Norah Eamon

Clerks

Mrs. J. McAllister

Miss E. A. Kavanagh

Charlotte McLoughlin

Mrs. Isadora Monsell

Mae Paris

Women's Auxiliary

Mrs. Hugh Minturn, *Chairman*Mrs. William H. Appleton, *Secretary*

Mrs. William H. Appleton

Mrs. John B. Morris

Miss Elizabeth Chapin

Mrs. Grosvenor Nicholas

Miss Garetta Reboul

Mrs. Carll A. Reimer

Mrs. Frank L. Crocker

Miss Muriel Winthrop

Miss Mary Martin

Miss Evelyn Smith

Mrs. Henry V. Poor

Mrs. de Forest Hicks

Miss Elizabeth Howard

General Announcement

The University and Bellevue Hospital Medical College was established in its present form and became an integral part of New York University in 1898 by the union of the University Medical College and Bellevue Hospital Medical College. The former was founded in 1841 and the latter in 1861.

The graduates of the former colleges, as well as graduates of the present consolidated college, have been placed on the records of New York University and are entitled to all the advantages of University alumni.

The curriculum has been arranged so as to present a carefully graded course of four years. The work of each year is thoroughly systematized, and correlated subjects are taken up in their proper order. The advantage of a close personal relationship between the members of the faculty and the individual members of the classes is recognized and the instruction is so arranged that this relationship may be established to the fullest extent possible.

Clinical and bedside teaching in the college clinic and in the wards of the hospital, systematic section teaching in the practical departments and practical work in the special subjects are emphasized to the greatest possible degree, being conjoined with, and founded upon, practical laboratory work, recitations, and didactic teaching. Attention is especially called to the arrangement of the work in the fourth year of the course, which has for its object more definite clinical instruction in all branches of medicine at a time when the students are best prepared to receive it. The arrangement also permits of a wider use of the hospital facilities of the city.

The college occupies at present four large buildings situated on the corner of First avenue and Twenty-sixth street, diagonally opposite the entrance of Bellevue Hospital.

I. College Building

This building was erected by the faculty of the Bellevue Hospital Medical College in 1897 and 1898 to meet the demands for the larger classes and the increase in the curriculum. It was transferred to New York University at the time of the consolidation of the two schools.

It is situated on the corner of First avenue and Twenty-sixth street and adjoins the Carnegie laboratory and the new laboratory building with which it is connected. The site is particularly fortunate, as it is well lighted both from the avenue and Twenty-sixth street.

The building is six stories high. The ground floor accommodates part of the college clinic for the outdoor sick poor. The second and third floors are occupied by two large and well-lighted lecture rooms.

The department of pathology occupies the fourth floor. It contains research laboratories, balance rooms, and a laboratory for research work in pathological chemistry, also a pathological museum which is open to students and to graduates in medicine. Working libraries form portions of the equipment in all of the laboratory departments and are accessible to the students. Adjoining the department of pathology are the laboratories of bacteriology and hygiene, fully equipped for the teaching and research work of students in this department. The completion of the extension of the Carnegie laboratory allowed of increased facilities in these departments which have always been prominent features in the instruction of the third and fourth years. Students of the third and fourth year classes have regularly assigned work in this laboratory and are thoroughly trained in the methods of clinical diagnosis by the examination of specimens sent from the college clinic, and the services of the college in Bellevue Hospital.

The department of physiology occupies the fifth floor. The completion of the new laboratory building made possible the enlargement of the general laboratory which has been equipped with new tables and apparatus for the use of the students in the course of practical physiology.

The anatomical department occupies the top floor, having a spacious, well-lighted and ventilated dissecting room. There is also a room for the preparation and distribution of bones.

II. Carnegie Laboratory

The Carnegie laboratory, a gift to the Bellevue Hospital Medical College by the late Mr. Andrew Carnegie, is situated at nos. 338 and 340 East Twenty-sixth street, adjoining and communicating with the college building.

It is a five-story building devoted to investigation in anatomy and instruction in applied anatomy and operative surgery. There is one large auditorium for didactic teaching; also a well-equipped library for the use of students and the dean's office.

III. Carnegie Laboratory Extension

The Carnegie laboratory extension, a more recent gift of Mr. Carnegie, was completed in 1910. The building is six stories high

and fronts on First avenue, adjoining the present clinic buildings on the south. It contains research rooms and laboratories for chemistry, bacteriology and hygiene, pathology, physiology, pharmacology and surgical research. The addition of this building permitted the extension of work in all the laboratory departments, both teaching and research.

IV. New Laboratory Building

The new laboratory building is a six-story edifice adjoining and harmonizing in its architecture with the main college building. It furnishes needed accommodations for the increasing number of students, and renders possible a further extension and elaboration of the laboratory work.

The first and second floors are occupied by an extension of the college clinic. This gives greatly needed room for the treatment of the sick poor, and the clinical teaching in the different departments. The third floor is devoted to classrooms and laboratories in chemistry and adjoins the research laboratories on the corresponding floor of the Carnegie laboratory extension. The fourth floor is devoted to classrooms in bacteriology and is connected with the new research laboratories and preparation rooms in the Carnegie laboratory extension. The fifth floor is devoted to physiology and pharmacology. The sixth floor accommodates the laboratory of microscopical anatomy and an anatomical study room.

The classroom laboratories thus provided are large and commodious, admirably lighted from two sides, and afford exceptional facilities for teaching purposes.

College Clinic

The college clinic occupies the ground floor of the main college building, and the first floor and part of the second floor of the new laboratory and Carnegie laboratory extension building. There are classes for the treatment of general medical and surgical cases and of diseases of the eye, ear, nose, throat and skin, diseases of women and children, and venereal and nervous diseases, etc. The clinic is one of the largest in New York City for the treatment for the outdoor sick. During the past year about 100,000 cases were treated. This statement affords a good indication of the almost unlimited amount of clinical material which is available for the students of this college for clinical instruction and study. The hour

cards for the third and fourth year classes are so arranged that in addition to the stated clinics the students are daily occupied in practical clinical work in the college clinic and in Bellevue Hospital.

College Clinic Operating Room

Through the friends of the college clinic, a large operating room was thoroughly equipped, together with an etherizing room, sterilizing room, and a recovery room for taking care of minor surgical operative cases. The operating room is in charge of a trained nurse, and students of the third and fourth years are assigned to section work for instruction in the administration of anesthetics, the preparation and sterilization of dressings, and the conducting of such minor surgical operations as can frequently be performed in a physician's office.

The Heye Recovery Ward

Through the generosity of Mrs. James B. Clemens, a recovery ward of thirteen beds was provided for the care of patients requiring anesthesia. This makes it possible to retain under observation emergency patients and post-operative cases, thereby increasing the efficiency of the college clinic. The ward is provided with day and night nurses and with a diet kitchen and other conveniences for the care of the patients.

Bellevue Hospital

A large number of the general clinics and most of the bedside teaching to the fourth year class are given in the wards of Bellevue Hospital.

The members of the faculty, who are attending physicians and surgeons to the hospital, hold regular clinics in the large amphitheatre, and small sections of the classes are taken into the wards, where the students are required to examine patients suffering from various medical and surgical diseases. Students of the fourth year class are also regularly assigned to the care of cases in the wards under the supervision of the attending and house staffs.

The hospital itself is one of the largest in this country and has always been distinguished for the abundance of its clinical material. The Board of Estimate of New York City authorized a large appropriation for the erection of a new Bellevue Hospital. When completed it will have accommodations for nearly 2,000 patients. The estimated cost is over \$8,000,000.

Clinical Facilities

The college possesses ample facilities for clinical teaching, and the school is pre-eminent as a school of practical medicine. This purpose has been constantly in view in the arrangement of the course of study.

College Clinic (in college building).

This is a general medical and surgical clinic, and supplies aid for the outdoor sick poor. The situation is peculiarly advantageous, as it is just opposite Bellevue Hospital. It affords abundant material for practical clinical instruction in all departments of medicine and surgery. Connected with the clinic are the laboratories of bacteriology, pathology, and clinical microscopy, in which opportunity is given the student to make the necessary examinations of the blood, sputum, urine, etc.

Edward N. Gibbs Memorial X Ray Laboratory

Through the generosity of friends of the college and in recognition of the medical services rendered to the late Edward N. Gibbs by members of the Bellevue Hospital medical staff, there has been established in connection with the college clinic the Edward N. Gibbs X ray laboratory.

The laboratory is attached to the college clinic and is conducted to aid the medical and surgical staffs of Bellevue Hospital and of the clinic in the diagnosis and study of obscure forms of disease among the patients under treatment in these institutions. The facilities of this laboratory will be used to illustrate the lectures on Roentgenology. It is maintained in the highest degree of efficiency by the founders.

Bellevue Hospital (26th street and First avenue.)

Bellevue Hospital is directly across the street from the college buildings. It is the great city hospital especially used for acute diseases, has ten hundred and seventy-five beds, and receives annually about 25,000 patients. All of the great charitable institutions on Blackwell's, Ward's, Randall's, and Hart's Islands receive their inmates, numbering many thousands, through Bellevue Hospital or its out-patient department. In the out-patient department more than fifty thousand new patients a year are treated, aside from those admitted to the various hospitals of the Department of Charities.

Medical Service

Professor Hermann M. Biggs, Consulting Physician
Professor Edward D. Fisher, Consulting Neurologist
Professor Robert J. Carlisle, Director and Visiting Physician
Professor Samuel A. Brown, Visiting Physician
Professor Theodore J. Abbott, Visiting Physician
Professor Warren Coleman, Visiting Physician
Professor James F. Nagle, Assistant Visiting Physician
Professor George B. Wallace, Assistant Visiting Physician
Professor Luther B. MacKenzie, Assistant Visiting Physician
Professor John Wyckoff, Assistant Visiting Physician
Dr. Hubert V. Guile, Assistant Visiting Physician
Dr. Mills Sturtevant, Physician to Out-Patients and Adjunct Assistant Visiting Physician
Dr. E. David Friedman, Physician to Out-Patients and Adjunct Assistant Visiting Physician, Neurological Service
Professor William J. Pulley, Adjunct Assistant Visiting Physician
Dr. Cornelius J. Tyson, Physician to Out-Patients and Adjunct Assistant Visiting Physician
Dr. Edward J. Riley, Physician to Out-Patients and Adjunct Assistant Visiting Physician
Dr. Bernard L. Robins, Assistant Physician to Out-Patients
Dr. Louis L. Shapiro, Assistant Physician to Out-Patients
Dr. Max P. Cowett, Assistant Physician to Out-Patients

Surgical Service

Professor George D. Stewart, Director and Visiting Surgeon, Third Division
Professor John Douglas, Visiting Surgeon
Professor Thomas A. Smith, Director and Visiting Surgeon, Fourth Division
Professor Walter C. Cramp, Visiting Surgeon
Professor Reginald H. Sayre, Assistant Visiting Surgeon in charge of Orthopedic Cases
Professor Lee M. Hurd, Assistant Attending Laryngologist and Otolologist
Professor Carl G. Burdick, Assistant Visiting Surgeon
Professor William C. Lusk, Assistant Visiting Surgeon
Professor Arthur M. Wright, Assistant Visiting Surgeon
Professor Robert P. Wadhams, Assistant Visiting Surgeon
Dr. Howard Barber, Assistant Visiting Surgeon

Dr. Morris M. Sweeney, Adjunct Assistant Visiting Surgeon
Dr. George A. Koenig, Adjunct Assistant Visiting Surgeon
Dr. George F. Cahill, Adjunct Assistant Visiting Surgeon
Dr. Edward King, Adjunct Assistant Visiting Surgeon
Dr. Herman C. Russell, Adjunct Assistant Visiting Surgeon
Dr. John Nelson, Adjunct Assistant Visiting Surgeon
Dr. Irwin E. Siris, Adjunct Assistant Visiting Surgeon

Gynecological Service

Emeritus Professor Henry C. Coe, Consulting Gynecologist
Professor Frederick C. Holden, Director and Visiting Gynecologist
Professor Onslow A. Gordon, Jr., Assistant Visiting Gynecologist
Dr. Edwin Wilson Holladay, Assistant Visiting Gynecologist
Dr. John Francis McGrath, Assistant Visiting Gynecologist
Dr. David Nye Barrows, Visiting Gynecologist to Out-Patients and
Adjunct Assistant Visiting Gynecologist
Dr. James Patrick Hennessy, Visiting Gynecologist to Out-Patients
and Adjunct Assistant Visiting Gynecologist
Dr. Francis W. Sovak, Visiting Gynecologist to Out-Patients and
Adjunct Assistant Visiting Gynecologist
Dr. Thomas E. Lavell, Visiting Gynecologist to Out-Patients and
Adjunct Assistant Visiting Gynecologist
Dr. H. C. Dixon, Resident Gynecologist

Obstetrical Service

Professor Austin Flint, Consulting Obstetrician
Professor Frederick W. Rice, Visiting Obstetrician
Dr. Frederick C. Freed, Assistant Visiting Obstetrician
Dr. Arthur M. Reich, Adjunct Assistant Visiting Obstetrician

Genito-Urinary Service

Professor Alfred T. Osgood, Associate Visiting Genito-Urinary Surgeon
Dr. A. R. Stevens, Assistant Genito-Urinary Surgeon
Dr. O. S. Lowsley, Assistant Genito-Urinary Surgeon
Dr. W. H. McNeill, Jr., Adjunct Assistant Visiting Genito-Urinary Surgeon

Dermatological Service

Professor William B. Trimble, Director
Dr. John J. Rothwell, Assistant Visiting Physician

Psychiatric Service

Professor Menas S. Gregory, Chief Alienist and Director, Psychopathic and Alcoholic Wards

Pathologist

Professor Douglas Symmers, Director of Laboratories

Pathological Chemist

Professor Alexander O. Gettler

Harlem Hospital (Lenox avenue, 136th street)

Reached by electric cars from college building. Harlem Hospital is allied with Bellevue Hospital and has a large out-patient department. Students are assigned in small sections for clinical instruction in the medical and surgical wards.

Professor Lewis Knode Neff, Visiting Physician and Director of Medical Service

Professor William H. Luckett, Visiting Surgeon and Director of Surgical Service

Professor John T. J. Bird, Visiting Physician

Professor Herman A. Haubold, Visiting Surgeon

Dr. J. E. Lumbard, Anesthetist

City Hospital (formerly Charity Hospital, Blackwell's Island).

This is a great city hospital for chronic and venereal diseases. It has about one thousand beds, and is reached from the Queensborough Bridge, foot of East 59th street.

Professor Harlow Brooks, Visiting Physician

Professor C. E. Quimby, Visiting Physician

Professor Edmund P. Shelby, Visiting Physician

Dr. William Steinach, Visiting Neurologist

Dr. John H. Carroll, Assistant Visiting Physician

Dr. I. J. Levy, Assistant Pathologist

Section teaching and hospital clinics may be given at this institution.

Manhattan State Hospital for the Insane (Situated on Ward's Island).

This hospital is reached by ferry from the foot of East 116th street. Boats leave every half hour.

This hospital has 4,500 insane patients, and opportunities afforded the students for the study of various forms of mental diseases are unsurpassed.

Emeritus Professor Carlos F. MacDonald, Consulting Physician
Professor E. D. Fisher, Consulting Physician
Professor William C. Lusk, Consulting Surgeon
Professor Charles E. Quimby, Consulting Physician
Professor Charles A. Elsberg, Consulting Physician

Willard Parker and Reception Hospitals, and the Riverside Hospital for Contagious Diseases (Department of Health of New York City).

The Willard Parker and Reception Hospitals are situated at the foot of east 16th street. These hospitals are devoted to the treatment of scarlet fever and diphtheria, and to the reception of other contagious diseases.

Practical bedside instruction in the diagnosis of these diseases is afforded to students during the fourth year.

These institutions are easily accessible by street car from the college buildings, and contain about six hundred beds.

The Riverside Hospital is reached from the foot of east 16th street by steamers of the Department of Health, or from east 132d street.

It is devoted to all forms of contagious disease, and has facilities for accommodation of more than three hundred patients.

Professor Alfred F. Hess, Visiting Physician

Professor Leon T. LeWald, Consulting Roentgenologist

Professor William H. Park, Attending Bacteriologist

Professor Thomas A. Smith, Attending Surgeon

Professor Carl G. Burdick, Assistant Surgeon

Presbyterian Hospital (Madison avenue and 70th street).

Accessible by electric cars from the college. This is a large modern general hospital containing three hundred and thirty beds.

Opportunities for bedside instruction are afforded to members of fourth year class in small sections.

Emeritus Professor W. P. Northrup, Visiting Physician

Professor A. T. Osgood, Visiting Genito-Urinary Surgeon

St. Vincent's Hospital (Seventh avenue and 12th street).

Large general hospital containing about three hundred beds. Reached by street car from college building.

Professor W. C. Lusk, Consulting Surgeon

Professor Hermann M. Biggs, Visiting Physician

Professor George D. Stewart, Visiting Surgeon

Professor A. R. Mandel, Assistant Visiting Physician

Professors William M. Ford and A. M. Wright, Assistant Visiting Surgeons

Professors Douglas Symmers and Alexander Fraser, Pathologists

Professor E. D. Fisher, Consulting Neurologist

Professor R. H. Sayre, Consulting Orthopedic Surgeon

Dr. C. J. Tyson, Assistant Visiting Physician

Mt. Sinai Hospital

Opportunities in this institution for clinical teaching have been placed at the disposal of the University and Bellevue Hospital Medical College. According to the arrangement, students of the fourth year will be definitely assigned to the medical and surgical wards of the hospital and their work will be supervised by representatives of the medical staff appointed to the faculty. Professors Manges, Meyer, Elsberg, Nathan and Dr. E. D. Friedman.

Montefiore Home

The hospital is located at 210th street and Gunhill Road. Arrangements have been made whereby students may be sent to the hospital for assignment to the medical and surgical wards for clinical instruction.

Professor Alfred Meyer, Consulting Physician

Professors Harlow Brooks and Maurice Fishberg, Visiting Physicians

Professors I. Abrahamson and C. A. Elsberg, Visiting Neurologists

Professor Charles Goodman, Visiting Surgeon

Professor P. W. Nathan, Visiting Orthopedic Surgeon

Professor I. Levin, Chief of Cancer Research

Beth-Israel Hospital

The hospital is located at Monroe, Jefferson and Cherry Streets and contains 150 beds. Students are assigned in small sections for clinical instruction in the wards.

Professor George D. Stewart, Consulting Surgeon

Emeritus Professor H. C. Coe, Consulting Gynæcologist

Professor A. F. Hess, Visiting Physician to Children

Professor Charles Goodman, Visiting Surgeon

New York Foundling Hospital (68th street, between Third and Lexington avenues).

Reached by street car from college building. Is under the charge of the Sisters of Charity.

Emeritus Professor William P. Northrup

Professors Rowland G. Freeman, Alexander Fraser, and Stanley Brady

The O'Dwyer Memorial Clinic, established in 1898 in this institution.

Emeritus Professor William P. Northrup and Professor Rowland G. Freeman

Manhattan Maternity and Dispensary (on 60th street between First and Second avenues).

This is a small hospital which was opened for patients in February, 1905. It conducts an indoor and outdoor obstetrical service and provides a practical course for students. The certificate of this hospital is accepted by the college as complying with all the requirements for actual attendance on labor cases.

Professors William M. Ford, Austin Flint, and Frederick W. Rice, and Drs. Frederick C. Freed and Ralph W. Nutter.

Professor Alexander Fraser, Pathologist.

New York Nursery and Child's Hospital (161 West 61st street).

Hospital for foundlings and children of two years, homeless mothers nursing their infants and confinement cases.

Professor Rowland G. Freeman

Professor Austin Flint

Dr. Edwin W. Holladay

New York Eye and Ear Infirmary (13th street and Second avenue).

Easily accessible by Second avenue electric cars. Students of the college are invited to attend the operative clinic of Professor Dench, Mondays at 3.00 P.M., and Professor Weeks, Thursday, at 3.00 P.M.

Requirements for Admission

Session 1920-1921

On March 1, 1919, the Council of New York University announced that beginning with the session 1919-1920 women would be eligible for admission to the University and Bellevue Hospital Medical College on the same basis as men.

The session of 1920-1921 opens on Wednesday, September 15, 1920 and continues until June 8, 1921.

The minimum requirement for admission to the University and Bellevue Hospital Medical College is as follows:

Evidence of the completion of two full years of college work towards a bachelor's degree in a college recognized by the Department of Education of the State of New York. This work must be at least the equivalent of 60 semester hours of work and must include the following:

Chemistry—12 semester hours,* of which at least eight semester hours must be in general inorganic chemistry, including four semester hours of laboratory work. The remaining four semester hours shall consist of work in organic chemistry.

Physics—8 semester hours, of which at least two must be laboratory work.

Biology—8 semester hours, of which four must consist of laboratory work. The requirement may be satisfied by a course of eight semester hours in either general biology or zoölogy, or by courses of four semester hours each in zoölogy and botany, but not by botany alone.

English—Composition and literature, consisting of the usual introductory college course of six semester hours, or its equivalent.

Language—(French, Italian, Spanish, German). A reading knowledge of one of these languages is strongly urged. If the reading knowledge in one language is obtained on the basis of high school work, the student is urged to take one of the other languages in his college course.

It is also required that each student file with the secretary a Medical Student Qualifying Certificate as issued by the Department of Education of the State of New York. This certificate may be obtained by filing with the Department of Education credentials equivalent to the minimum entrance requirements of this college.

Students entering the University and Bellevue Hospital Medical College after January 1, 1918, will, after the successful completion of their first and second years of medical work, be recommend-

*A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recitation period per week, each period to be not less than fifty minutes net, at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period.

ed to the Council of New York University for the degree of bachelor of science in medicine, and upon the successful completion of their fourth year, for the degree of doctor of medicine.

Methods of Making Application

Students desiring to enter the University and Bellevue Hospital Medical College should make application by filing in the office of the secretary:

1. Written application for entrance upon blank which will be furnished upon request.
2. Detailed certification of high school work.
3. Detailed certification of college work. These detailed certifications must show the courses covered, the hours per week and the number of weeks the courses included, and whether the work was didactic or laboratory. Such certificates must bear the signature of an officer of administration and the seal of the school or college.
4. Two letters of recommendation. One must be from a former college science teacher, stating his opinion of the candidate's ability and fitness to study medicine, and must be sent directly to the secretary.

As the size of the first year class is limited, it is proposed to choose one hundred and fifty of the most promising applicants. The selection will be made after carefully considering the following points:

1. The character of the college at which the candidate prepared.
2. The amount of premedical work.
3. The standing of the applicant in his high school and college work.
4. The opinion held by one of the applicant's teachers in college science as to the candidate's ability and fitness to study medicine.

Applications for admission may be accepted at any time.

Notification of acceptance for enrollment as a student or of non-acceptance will be sent to all candidates not later than July 15th.

Students accepted for admission must file their medical student qualifying certificates before they will be allowed to matriculate.

Matriculation

Students whose applications have been accepted must matriculate within two weeks after they have been notified, otherwise their

names will be dropped from the list of accepted students and replaced by other applicants. The matriculation fee is \$10.00 and if possible students should matriculate in person. The matriculation fee is never refunded.

Registration

All students must register at the office of the secretary at the beginning of the fall term.

Second, third and fourth year students must pay a University fee of \$10.00, and all students must make a payment on their general tuition fee as described under the schedule of fees.

Combined College and Medical Course

The Council upon the recommendation of the faculties of the College of Arts and Pure Science and of the University and Bellevue Hospital Medical College, has approved a combined college and medical course of six and one-half years leading to the degree of bachelor of science at the end of four and one-half years and to the degree of doctor of medicine at the end of six and one-half years. This combined course will enable a student who completes eight college credits in addition to the requirements of the freshman and sophomore years of the medical preparatory course as stated above, or 84 college credits, to obtain the degree of bachelor of science upon the completion of the first two years of the regular course of the medical college.

First year courses in a modern language and courses in those sciences in which work has been prescribed in the schedule of the first two years may not be included in the eight credits described above.

But combining summerschool work with that of the regular college year it will be possible for earnest and able students to complete the combined course and secure the two degrees in six years but the college faculty strongly advises the average student to remain three years in college before undertaking the medical course.

State Requirements of Higher Preliminary Education

There are now thirty states which have adopted the requirement of two years of college work as preliminary education in addition to a full standard four-year high school education.

State Examining Board of	Number of Years Required	Affects Students Matriculating	Affects All Graduates
Requiring two years			
Alabama.....	2	1915-16	1919
Alaska.....	2	1918-19	1922
Arizona.....	2	1918-19	1922
Arkansas.....	2	1918-19	1922
Colorado.....	2	1910-11	1914
Florida.....	2	1918-19	1922
Illinois.....	2	1918-19	1922
Indiana.....	2	1911-12	1915
Iowa.....	2	1911-12	1915
Kansas.....	2	1918-19	1922
Louisiana.....	2	1918-19	1922
Maryland.....	2	1918-19	1922
Michigan.....	2	1918-19	1922
Mississippi.....	2	1919-20	1923
Minnesota.....	2	1908-09	1912
Montana.....	2	1918-19	1922
New Hampshire.....	2	1915-16	1919
New Jersey.....	2	1916-17	1920
New Mexico.....	2	1918-19	1922
New York.....	2	1918-19	1922
North Carolina.....	2	1918-19	1922
North Dakota.....	2	1908-09	1912
Oklahoma.....	2	1917-18	1921
Rhode Island.....	2	1918-19	1922
South Carolina.....	2	1916-17	1920
South Dakota.....	2	1911-12	1915
Tennessee.....	2	1918-19	1922
Vermont.....	2	1918-19	1922
Virginia.....	2	1917-18	1921
Washington.....	2	1918-19	1922
Wisconsin.....	2	1915-16	1919
Requiring one year			
California.....	1	1915-16	1919
Connecticut.....	1	1910-11	1915
Maine.....	1	1915-16	1919
Kentucky.....	1	1914-15	1918
Pennsylvania.....	1	1914-15	1918
Texas.....	1	1914-15	1918
Utah.....	1	1913-14	1917
West Virginia.....	1	1917-18	1921

Admission to Advanced Standing

Students who have attended one or more courses in other medical colleges will be admitted to advanced standing in this college under the following conditions:

Students will not be admitted to advanced standing if they have not satisfactorily completed the work in the colleges at which they have taken their previous courses. Students are not admitted to advanced standing in the fourth year.

Examinations for admission to advanced standing will be held at Carnegie Laboratory, 338 East Twenty-sixth Street, New York, on September 9, 10, 11, 1920.

Requirements for Admission to the Second Year

1. They must satisfy the entrance requirements of the class to which they seek admission.
2. They must present evidence of having satisfactorily completed one full course of instruction in a registered medical college.
3. They must present evidence of having satisfactorily completed laboratory courses in microscopic anatomy (including embryology), chemistry, gross anatomy, including dissection, approximately equivalent to those included in the curriculum of this college during the first year.
4. They must pass examinations in gross anatomy, chemistry and physics, and microscopic anatomy, similar to those taken by the students of the class to which they seek admission unless the credentials from the college where previous work has been done are accepted by the faculty.

Requirements for Admission to the Third Year

1. They must satisfy the entrance requirements of the class to which they seek admission.
2. They must present evidence of having satisfactorily completed two full courses of instruction in a registered medical college.
3. They must present evidence of having satisfactorily completed laboratory courses in normal and pathological histology, chemistry, physiology, bacteriology and pharmacology, approximately equivalent to the courses included in the curriculum of this college, and they must also have completed a course in dissection.
4. They must pass examinations in anatomy, physiology, chemistry, pharmacology, general pathology and bacteriology, similar to those taken by the students of the class to which they seek admission unless the credentials from the college where previous work has been done are accepted by the faculty.

Students who have passed in the subjects of anatomy, chemistry and physiology before the licensing board of the state of New York are exempt from further examination in these subjects.

Requirements for Admission to Special Courses

Graduates in medicine, or students who desire to pursue a special course and are not candidates for a degree, are admitted to registration as special students without the regents' or other preliminary examination. Such special courses do not count in any way as a part of the four years' course of instruction, etc., required of candidates for the degree of doctor of medicine. Further information regarding such courses, fees, etc., may be obtained on application.

Requirements for Advancement in Course

Students are advanced from one year to the next upon satisfactorily passing examinations at the close of the session. The work of each year is considered final. Students who fail to pass examinations satisfactorily at the close of any year may be conditioned or rejected. If conditioned, an opportunity is afforded at the beginning of the next college year to make up these conditions. A student who fails on re-examination to remove conditions will not be allowed to pass on to the next year. Rejected students will not be permitted to repeat the work of the first or second year.

Students at the beginning of each session must register with the secretary before attending class, and obtain from him a ticket stating that he has complied with all the financial and scholastic requirements necessary for promotion, and that he is entitled to attend exercises in the class to which he seeks admission.

All students must pass the state board examinations in anatomy, physiology and chemistry, before being advanced to the fourth year class.

First Year

The standing of a student at the end of the first year is determined by:

(a) A written examination on the topics covered by the courses of instruction in gross anatomy, chemistry and physics and microscopic anatomy.

(b) A practical examination in anatomy and the laboratory courses given.

(c) A record of his practical work and recitations.

Second Year

The standing of a student at the end of the second year is determined by:

(a) Final examinations covering the subjects of physiology, physiological chemistry and toxicology, physical diagnosis, materia medica and pharmacology, bacteriology, surgical anatomy, medicine, surgery and an examination on the topics covered during the year in general pathology.

(b) Practical examinations in physiology, pharmacology, physiological chemistry, pathological histology, and histology of nervous system.

(c) A record of his practical work and recitations.

Third Year

The standing of a student at the end of the third year is determined by:

(a) Written examinations on the instruction given in medicine, surgery, obstetrics, gynecology, therapeutics, pediatrics, pathology, bacteriology and hygiene, otology, laryngology, genito-urinary surgery.

(b) Practical examinations in applied pathology and gross pathology.

(c) A record of all recitations and practical work in the section classes.

Fourth Year

The standing of a student at the end of the fourth year is determined by:

(a) Written examinations in medicine, surgery, obstetrics, gynecology, pediatrics, therapeutics.

(b) Practical examinations may be held in addition to a written examination in any subject when deemed necessary by the faculty.

(c) Written examinations in nervous diseases, mental diseases, dermatology, otology, laryngology, orthopedic surgery, military surgery, genito-urinary surgery and diseases, and ophthalmology.

(d) Record of work in recitations, hospital ward work, section classes and reports at conferences.

Examination Rules for Students

1. Notes or textbooks must not be brought into the examination rooms. The use of notes or textbooks either brought from without or obtained within the examination room, as well as the giving or receiving of information during the examination, is an offense punishable by expulsion from the college.

2. If, during the course of an examination, the behavior of a student in such as to arouse suspicion of wrongdoing, the proctor in charge is given authority to make such investigation at the time as in his opinion he may deem necessary, and will report promptly the facts relating thereto, to the committee on examinations.

Rule for Reexaminations

Conditioned students are required to register and obtain a ticket of admission to the reexaminations the fee for which is five dollars.

Requirements for Graduation—Session 1920-1921

Students who have completed all the work required in the first three years, and have been admitted to the fourth year class may become candidates for graduation under the following conditions:

1. They must have successfully completed four years of medical work of which the last two years must have been taken in this institution.

2. They must, as required by law, have reached the age of twenty-one years, and must file satisfactory certificates of good moral character. (Blank forms of certificates of age and of moral character will be furnished by the secretary on application.)

3. They must have filed a certificate from a recognized institution, that they have attended at least fifteen cases of labor.

Fees for the Four Year Course, Session 1920-1921*First Year**

University fee including matriculation.....	\$10.00
Payable at the beginning of the first year	
Microscope fee†.....	10.00
General instruction including laboratory instruction†....	250.00

Second Year

University fee.....	\$10.00
Microscope fee†.....	10.00
General instruction including laboratory instruction....	250.00

Third Year

University fee.....	\$10.00
Microscope fee†.....	10.00
General instruction, including laboratory instruction....	250.00

Fourth Year

University fee.....	\$10.00
Microscope fee.....	10.00
General instruction including laboratory instruction....	250.00
Examination fee.....	25.00

Tickets cannot be transferred, and fees will not be returned.

Payment of Fees

For session of 1920-1921 first year students may select either Plan I or II for the payment of fees.

I. Full Payment Plan

Upon registration, they may pay a fee of two hundred and seventy dollars (\$270.00), which includes

Tuition.....	\$250.00
Microscope fee.....	10.00
University fee.....	10.00

Total..... \$270.00

*The Council of New York University reserves the right to change all tuition charges and fees at its discretion. The University fee will not be refunded.

†Students are required to provide themselves with dissecting case and laboratory materials (slides, cover-glasses and boxes for storing slides, etc.), and text-books as recommended by the heads of the various departments which become their personal property.

‡A microscope fee of ten dollars is charged each year for the use of microscope. At the end of the fourth year, a microscope may be obtained by the student upon payment of the difference between the market price of a microscope and the forty dollars rental fee which he has paid.

II. Two Payment Plan

Upon registration, one hundred and forty-five dollars

(\$145.00)

Tuition ½ year.....	\$125.00
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Microscope Fee.....	10.00
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University Fee.....	10.00
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March 15, 1921, one hundred and twenty-eight dollars and twelve cents. (\$128.12.)

Tuition ½ year.....	\$125.00
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Interest.....	3.12
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Second, third and fourth year students may pay their fees in one of three ways:

I. Full Payment Plan

Upon registration, two hundred and seventy dollars

Tuition.....	\$250.00
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Microscope Fee.....	10.00
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University Fee.....	10.00
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II. Two Payment Plan

Upon registration, one hundred and forty-five dollars

Tuition ½ year.....	\$125.00
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Microscope fee.....	10.00
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University fee.....	10.00
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March 15, 1921, one hundred and twenty-eight dollars and twelve cents.

Tuition.....	\$125.00
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Interest.....	3.12
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III. Four Payment Plan.

Upon registration, one hundred and twenty dollars, tuition ¼ year.....

100.00

Microscope fee.....	10.00
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University fee.....	10.00
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December 15th, fifty-one dollars and eighty-eight cents

Tuition ¼ year.....	\$50.00
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Interest.....	1.88
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March 15th, fifty-one dollars and twenty-five cents

Tuition ¼ year.....	\$50.00
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Interest.....	1.25
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May 15th, fifty dollars and forty-two cents

Tuition ¼ year.....	50.00
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Interest.....	.42
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These fees are payable in accordance with the above schedules. The University and microscope fee must always be paid at the beginning of the year.

Examination fee of twenty-five dollars for the members of the fourth year class is payable before the 1st of May.

Alumni of the University Medical College, the Bellevue Hospital Medical College and the University and Bellevue Hospital Medical college are admitted without fee to the lectures and clinics of the third and fourth years.

Fees cover all expenses of the college except the course in practical obstetrics.

Fees for Special Students, 1920-1921

Tickets for one or more of the eight departments of practice of medicine, surgery, obstetrics, materia medica and therapeutics, pathology, physiology, anatomy, and chemistry may be taken separately at the rate of \$50 for each department, and each ticket thus taken entitles the holder to all the exercises connected with the department for which it is issued, except the laboratory courses and dissections; but attendance upon lectures under such separate tickets will not count in any way as part of one of the four regular courses of lectures required for graduation.

The dissecting ticket may be taken out separately by registrants

Dissection	\$25.00
Laboratory courses in chemistry, normal histology, pathological histology, materia medica, gross pathology and autopsies each	25.00
Laboratory course in clinical microscopy open to graduates in medicine only	25.00

Course of Study

The course of study required of all students who are candidates for the degree of doctor of medicine extends over four years.

All work in the curriculum set forth below in outline is required unless especially marked as optional.

When instruction in any subject is continued for two or more years, the instruction given in each year is different, and students are required to pass satisfactory examinations at the end of each session before taking up the work of the following year.

The faculty reserves the right to terminate the connection of any student with the institution at any time on the ground of what it regards as moral or mental unfitness for the profession, or improper conduct while connected with the college.

The right is reserved to make at any time such alterations or additions to this curriculum as may be found desirable or necessary.

Summary of Studies

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry, L. 50, R. 16, L. W. 96.	Physiol., L. 64, R. 48, L. W. 96	Medicine, L. 32, R. 128, S. 64, C. 96.	Medicine, S. 180, C. 64, R. 32.
Physiological Chemistry, L. 64, R. 16, L. W. 96.	Path Phys., L. 32; R. 16; L. W. 48.	Surgery, L. 64, R. 64, S. 64, C. 96, Conf. 32.	Surgery, S. 144, C. 32 Conf. 32, R. 32.
Gross Anat. & Gross & Micros. Neurol., L. 16, R. 16, L. W. 480.	Mat. Med. & Phar. L. 80, R. 48, L. W. 96.	Obstetrics, R. 64, L. I. H., 3 weeks	Obstetrics, L. 16, R. 16, S. 24.
Microscopical Anatomy & Embry., R. 16, L. W. 240	Gen'l. Path., L. 32 & L. W. 192, R. 48.	Gynæc., R. 32, L. 32.	Gynæc., S. 48.
Physiology L. 32.	Phys. Diag., 64.	Therap., L. 32, R. 16	Therap., Conf. 10. L. 6, S. 18.
	Medicine, C. 16. R. 16.	Gross Path., S. 64	Ophth., L. 32, S. 24.
	Surgery, C. 16, R. 16	Applied Pathology, R. 16. L. W. 32.	Gross Path., S. 36.
	Bact., L. 16, L. W. 96.	Pediat., L. 32, R. 32.	Gen. Ur. Surg., S. 36.
	Op. Surg., L. W. 48.	Hygiene, L. 32, L. W. 64.	Orthopedic Surg., L. 32, S. 24.
	Surg Anat., L. 16.	G. U. Surg., L. 16	Neurol., L. 32, S. 24.
	Applied Path. R. 16; L. W. 32.	Otology, L. 16.	Pediat., S. 36.
		Laryngol., L. 16.	Otol., S. 24.
			Laryngol., S. 24.
			Psych., L. 16.
			Derm., L. 32, S. 24.
			X-Ray, L. 10; S. 20.
			Special Subjects, Lectures, 20.

L.—Lecture. R.—Recitation. L. W.—Laboratory Work. C.—Clinic. S.—Section Teaching. Conf.—Conference. L. I. H.—Lying in Hospital.
The figures indicate the number of hours per session.

ANATOMY

Professor: H. D. Senior

Associate Professor: Frederick W. Thyng

Assistant Professor: Jesse L. Conel

Instructors: S. Brock, Benjamin Spector

Assistants: E. I. Diamond; G. W. Partridge; C. Rogowitz

Technician: Lillian Hubinger

First Year

Lectures—One a week throughout the session.

Laboratory Work—

Gross Anatomy—Dissection of the entire body. Seventeen hours a week with recitations throughout the session, except during the time occupied by the course in neurology, including the organs of special sense. Professor Senior and Assistant Professor Conel, Drs. S. Brock, Rogowitz and Partridge.

Microscopic Anatomy, Adult and Embryonic—Nine hours a week during the first half session and six hours a week during the second half session, with recitations. Course consists of a preliminary study of the general processes of development followed by a study of the adult organs, fresh and in microscopic sections, and of the developing organs of the pig. Associate Professor Thyng and Mr. Spector.

Neuro-Anatomy, Including Organs of Special Sense, Gross and Microscopic—Sixteen hours a week, with recitations during the last six weeks of the second half session. Entire staff.

Practical Microscopic Technique—Optional course for selected students. Saturday afternoons. Associate Professor Thyng.

Second, Third, and Fourth Years

Facilities are available to senior students, and to recent graduates for advanced work in anatomy. The courses consist of laboratory work with such informal help in the selection of literature and preparation of materials as may be necessary; there are no fees. The following courses are offered:

- I. Anatomy of the Specialties, Gross and Microscopic. Nervous system, special sense organs, generative organs, etc.
- II. Embryology.
- III. Topographical Anatomy by means of frozen sections.

Facilities

The dissecting room occupies the entire top floor of the new college building and is well lighted and ventilated, and is open between the hours of 9 A.M. and 5 P.M. daily.

The microscopical laboratory, students' research room and the photographic room are on the top of the new laboratory building. There are smaller laboratories for advanced work on the top floor of the Carnegie Laboratory building.

Abundance of fresh and well-preserved material is supplied for dissection.

Research Work—Facilities will be provided for students and graduates who wish to do special or advanced work in anatomy.

PHYSIOLOGY AND PATHOLOGICAL PHYSIOLOGY

Professor: Holmes C. Jackson

Assistant Professor: Pro. V Prewitt

Instructor: Ernest F. Bostrom

Assistant: Ralph M. Fellows

Technician: Manuel Silver

First Year

Lectures—Two a week throughout the second semester, covering a short resumé of general physiology, the physiology of muscle and nerve and the mechanics of the circulation Professor Jackson.

Second Year

Lectures—Four a week during the first semester. Professors Jackson and Prewitt.

Recitations—Three a week throughout the first semester. These cover the subject matter of the lectures and laboratory work. Assistant Professor Prewitt and Mr. Bostrom.

Laboratory Work—Two three-hour periods during the first semester. The students are given practical experience with some of the methods of physiological investigation. Emphasis is laid upon accurate observation, logical deduction and well-rounded conclusions drawn from the experiments.

The following subjects are experimentally examined.

Muscle and Nerve—Response to mechanical, thermal, chemical and electrical stimulation; independent irritability of muscle; relation of reaction to strength of stimulus; genesis of tetanus; influence of temperature, fatigue and load upon voluntary muscle; propagation of reaction in nerve and muscle; action current and current of injury; automaticity and response of smooth muscle to stimulation; stimulation of human nerves; ergographic records of fatigue.

Haemodynamics—Mechanics of circulation as demonstrated by the piezometer and mechanical circulatory apparatus; inorganic salts on the heart muscle; the relation of the auricular to the ventricular cycle; vagus control; extra-systole and compensatory pause; the influence of the cervical sympathetic upon vascular and pupillary reactions; vaso-motor changes in the kidney and intestine; influence of vagus, sciatic, superior laryngeal and sensory surface nerves upon respiration and circulation; human blood pressure, arterial, venous and capillary. Effect of respiration and exercise upon blood pressure; production and interpretation of polygraphs.

Respiration—Mechanics of respiration; variations in intrapulmonic and intrathoracic pressure in inspiration and expiration and their relation to concomitant blood pressure variations; measurement of tidal, supplemental and vital air; nervous and chemical regulation of respiration.

Nervous System—Conduction in both directions by nerve; efficiency of end organ; resistance at synapses; the central nervous system as the cause of muscle tone; the function of spinal nerve roots; spinal cat showing spinal shock, stepping reflex, flexion reflex, extensor thrust, scratch reflex, reciprocal innervation, etc; reaction time in man; reflexes in decerebrate and decerebellate frogs and pigeons; reactions in response to stimulation of cerebrum and cerebellum of dogs; decerebrate rigidity, etc.

Sensation and Organs of Special Sense—Projection and referred sensation; specific nerve energy; cutaneous, muscle, pain, gustatory, olfactory, auditory and visual sensation.

Secretion, Absorption and Excretion—Regulation of secretion by nervous and chemical mechanisms; physics and physiology of absorption; urine and sweat excretion. Professors Jackson and Prewitt, and Messrs. Bostrom and Fellows.

Second Year: Pathological Physiology

Lecturers—Two a week during the first semester. The subjects presented in these lectures are:—fever, acidosis, pain, inflammation, and retrogressive changes, oedema, functional derangements of the circulatory, respiratory, alimentary, and genito-urinary systems, pathological reflexes, and disorders of metabolism, and the endocrine organs.

Recitations—One a week during the first semester upon the material presented in the lectures and the experimental results obtained in the laboratory.

Laboratory work—One three-hour laboratory period a week throughout the first semester will be devoted to the experimental production, by small groups of students, of the following pathological conditions:—acid intoxication with a mineral acid; carbon-monoxide poisoning; pulmonary oedema; aortic stenosis, aortic insufficiency; mitral insufficiency; acute experimental nephritis with uranium and diphtheria toxin; acute colitis; fatty degeneration; acute pancreatitis and fat necrosis; fat embolism; pancreatic, phlorhizin, and adrenalin glycuressis; hydropericordum cardiac reserve; atrial and ventricular extra-systoles. Assistant Professor Prewitt and Mr. Bostrom.

Facilities

Research Work—Students and graduates in medicine with sufficient qualifications will be afforded every opportunity to engage in special or advanced work. Professor Jackson.

Aside from the laboratory in which the required practical work is carried on, the department provides rooms for more advanced work. The department is amply supplied with apparatus for the required laboratory work, for demonstrations and for research.

CHEMISTRY

Professor: John A. Mandel

Associate Professor: Alexander O. Gettler

Instructors: Josephine Munson; William C. MacTavish

First Year, First Term

Lectures—Five a week for six weeks.

Physical Chemistry—A detailed discussion of the laws governing chemical phenomena such as kinetic theory, diffusion, osmosis, electrolytic ionization, dissociation, hydration, surface tension, colloidal states, determination of H ion concentration electro-chemistry, thermo-chemistry, chemical dynamics and equilibrium and description and use of special instruments used in biological research. Professor Gettler.

Lectures—Two a week for ten weeks.

Organic Chemistry—This course will consist in a review of organic chemistry so as to prepare the student especially for the lectures on physiological chemistry. Professor Mandel.

Recitations—One a week throughout the term on the topics covered by the lectures. Professors Mandel and Gettler.

Laboratory Work—Six hours a week throughout the term. Practical instruction is given in quantitative analysis, both volumetric, gravimetric and organic preparations. Associate Professor Gettler and Assistants.

First Year, Second Term

Lectures—Four a week for sixteen weeks.

Physiological Chemistry—These lectures will discuss the following subjects: The chemical composition of the animal body, carbohydrates, lipins, proteins; the chemistry of blood and other animal fluids and the chemistry of digestion; the chemistry of the internal secretions, milk, foods and nutrition and the chemistry of some of the morbid conditions, especially those affecting the character of the blood and urine. Professor Mandel.

Recitations—One a week throughout the term on the topics covered by the lectures. Professor Mandel.

Laboratory Work—Six hours a week throughout the term.

Practical work on the subjects covered by the lectures. Associate Professor Gettler and assistants.

Lectures—Two a week for sixteen weeks.

Facilities

The chemical department is equipped with apparatus and a collection of chemicals, with which the lectures are abundantly illustrated by experiments and demonstrations. The chemical laboratory is well supplied with most recent appliances and fixtures, and every facility is given the student to acquire a practical knowledge in chemical manipulations and testing. A small working library of chemical work or reference is also accessible to the students.

Facilities will be accorded to those students who desire to do advanced work in chemistry under the direction of the professor of that department.

MATERIA MEDICA AND PHARMACOLOGY

Professor: George B. Wallace

Assistant Professor: Emil J. Pellini

Assistant: Ralph W. Fellows

Second Year

Lectures—Five a week throughout the second half of the session. In this course a systematic and detailed study of the various drugs used in therapeutics is taken up. This comprises a study of the

physical and chemical properties of drugs; their action on the body as medicines or poisons; the indications for their use, based on their actions, and the forms and dosage in which they are prescribed. Toxicology, including symptoms and treatment, is also fully entered upon. The lectures are illustrated, whenever possible, by experiments and demonstrations. Professor Wallace.

Recitations—Three a week throughout the second half of the session, on the subjects discussed in the lectures. Professor Wallace and Assistant Professor Pellini.

Laboratory Work—Two three-hour exercises a week throughout the second semester. The course is divided into two parts, one devoted to a study of the actions of drugs, the other to a study of their preparations and methods of administration. The actions of drugs are shown by animal experimentation, the students working in small groups and performing the experiments themselves. The purpose of the course is to show how the important functions of the body may be modified by drugs. The nervous system, circulation, kidney, gastro-intestinal tract, etc., are studied from this standpoint, the drugs used to produce changes in function being those of therapeutic importance. Conclusions concerning their usefulness in therapeutics are drawn from the experiments. The symptoms and treatment of drug poisoning are also studied.

In the other part of the course the students individually study the drugs discussed in the lectures, making pharmacopoeial preparations, writing and putting up prescriptions, studying incompatibilities, and methods of administration. The detection of poisons and the physiological testing of drugs are also considered. Professor Wallace and Assistant Professor Pellini.

Facilities

An adequate supply of apparatus and material is furnished for the experimental work. The laboratory is well equipped with a large assortment of drugs and their preparations, and apparatus necessary for pharmaceutical and chemical work.

THERAPEUTICS

Professor: Samuel A. Brown

Clinical Professor of Medicine: John Wyckoff

Assistant: Floyd C. Raymond

Third Year

Lectures—Two a week throughout the session. In this course there will be a systematic consideration of the use of drugs in the

treatment of disease and the principles and applications of other therapeutic measures. Professors Wallace and Brown.

Recitations—One a week throughout the session, covering the subjects discussed in the lectures. Professor Wyckoff.

Fourth Year

Lectures—Applied therapeutics, including electro-therapeutics, hydro-therapy, massage, etc. Professors Brown and Wyckoff.

Practical Work.—In connection with the bedside teaching in clinical medicine in Bellevue Hospital and college clinic every opportunity is afforded for a thorough training in practical therapeutics. Professors Brown and Wyckoff.

Conferences.—Reports on assigned cases in the hospital and college clinic will be presented at these conferences, and the indications for treatment especially considered. The comparative value of the various medicinal and therapeutic means generally employed in the treatment of different diseases will be fully discussed. Prescription writing and compounding. Professor Brown and Mr. Raymond.

PATHOLOGY

Professor Pathological Histology: Alexander Fraser

Professor of Gross Pathology: Douglas Symmers

Lecturers: Charles B. Dunlap; Frank Fraser

Instructors: Emanuel D. Friedman; B. Schwartz; C. Darlington

Technician:

Second Year

Lectures—One a week throughout the sessions.

Recitations—One a week during first half of the session and two a week during the second half of the session.

Laboratory Work—Three hours a week during the first half of the session and nine hours a week during the second half of the session. The course includes the study of gross and histological material, together with the clinical histories of the cases from which the material is taken. Cases with fresh autopsy material are frequently presented. The latter part of the session is devoted to special pathology including a complete course in neuropathology. Professor Fraser and Drs. Dunlap, F. Fraser, and Darlington.

Third Year: Gross Pathology

The class is divided into sections of 10-12 men and each section receives two hours per week of instruction throughout the entire session. The work is divided as follows:

(1) Systematic study of preserved specimens supplemented by fresh autopsy and surgical material. Clinico-pathological conferences.

(2) Sections are taken to autopsies at St. Vincent's, New York Foundling, and Manhattan Maternity Hospitals. The students copy the clinical histories, write the autopsy protocols and subsequently discuss the cases at clinico-pathological conferences.

(3) Autopsy technique—Each week throughout the entire session one or two autopsies are performed by the students themselves, so that at the end of the session each student will have taken an active part in the performance of at least six autopsies. The material obtained is made use of in the other courses and the cases are discussed at the conferences. Professor A. Fraser and Drs. Friedman, Darlington, and Fraser.

Fourth Year: Gross Pathology

Autopsies—During the second half of the session, small groups of students attend in the autopsy rooms of Bellevue Hospital three hours daily for a period of two weeks, during which they witness the performance of autopsies on patients dying in the wards of Bellevue Hospital or investigated under the auspices of the chief medical examiner because of peculiar circumstances attending death. The course is designed to correlate clinical symptoms with the changes revealed by death and to familiarize the student with the methods employed in the investigation of death by crime and casualty. The quantity of material available for teaching in this course is enormous. Professor Symmers and Dr. Schwartz.

Conferences—Small groups of students are taken at regular intervals to the pathological laboratory at Bellevue Hospital and material removed at operation is demonstrated to them microscopically and otherwise with particular reference to the clinical features as the students themselves have observed them in the wards. Professor Symmers.

Facilities

The pathological department is equipped with a well-stocked and steadily enlarging museum of morbid specimens, with laboratories in which such specimens are prepared for the museum, and with a clinical laboratory fitted for the examination of material from the hospital and college clinic.

Research Work.—Properly qualified students or graduates in medicine will be afforded every opportunity of carrying on special or advanced work along morphological or experimental lines. Professor Fraser.

APPLIED PATHOLOGY AND CLINICAL MICROSCOPY

Professor: Arthur R. Mandel

Lecturer: Frank G. Schaible

Instructors: B. Dubovsky; J. E. Connery

Second Year

Laboratory Work—Two hours a week for the second half of the session are devoted to practical instruction in the microscopical and chemical examination of blood and feces with a view to the application of the results in diagnosis. Professor Mandel and Drs. Schaible, Dubovsky and Connery.

Recitations—One hour a week is devoted to a recitation from a textbook upon clinical diagnosis. Professor Mandel.

Third Year

Laboratory Work—Two hours a week for the first half of the session are devoted to practical instruction in the microscopical and chemical examination of urine, sputum, vomitus and stomach contents, inflammatory exudates, etc., with a view to the application of the result in diagnosis. Bacteriological and serological methods are also taught when serviceable. Professor Mandel and Drs. Schaible, Dubovsky and Connery.

Recitations—One hour a week is devoted to a recitation from a textbook upon clinical diagnosis and upon the methods used in the laboratory work and the interpretation of results. Professor Mandel.

Facilities

The clinical laboratory is open to those students of the fourth year who are required to make examinations of material from cases in the hospital or the college clinic in connection with their section teaching in clinical medicine and surgery. It is provided with the necessary equipment for the examination of urine, sputa, blood, inflammatory exudates, etc., contains a small working library, and the instructors in clinical microscopy and pathology will assist the students in applying the appropriate methods of examination and in planning such original investigations as they may desire to undertake.

BACTERIOLOGY AND HYGIENE

Professor: William H. Park

Associate Professor: Charles Krumweide, Jr.

Assistant Professors: Charles Krumwiede, Jr.; Robert J. Wilson;
Willis C. Noble

Lecturers: S. Josephine Baker; Louis I. Harris; May C. Schroder;
James T. B. Bowles

Instructors: Abraham Zingher; Georgia Cooper; Florence Frankel;
Willis C. Noble; Harriet L. Wilcox.

Assistants: Ruth A. Thomas; Florence Knacke

Second Year

Laboratory Work, Bacteriology—Three hours, twice a week, during one half of the session. In this course the students are taught first the technique of bacteriological examinations; the methods of obtaining pure cultures of bacteria and of studying species after their isolation. Later they study the pathogenic bacteria and protozoa which are of medical importance and not infrequent in occurrence. The laboratory course includes the practical application of bacteriology to the diagnosis, course and treatment of disease, and includes the examination of sputum, pus, blood, feces, milk, water, disinfectants, etc. Professors Krumwiede and Noble and Assistants.

Lectures—One hour a week, one-half the session. Assistant Professor Wilson.

Third Year

Laboratory Work: Applied Bacteriology—Two hours a week, throughout two-thirds of the session. The relations of bacteriology to the prevention of disease will be especially dwelt upon. The development of antitoxins, opsonins, immune bodies and agglutinins and the methods used in estimating them are studied. Opportunity will be given to visit the Department of Health and other places of interest. The student will also have an opportunity to witness the practical methods of preparing and testing diphtheria, antitoxin, the other protective sera, and the bacterial vaccines as well as the vaccines for hydrophobia and smallpox. Professors Park, Krumwiede and Noble and Dr. Zingher.

Hygiene—The control of communicable diseases; infant welfare work; school, industrial and personal hygiene; public health administration; vital statistics; water and milk supplies; ventilation and disinfection will be carefully considered.

Lectures—One hour a week throughout the session.

Field Work and Quizzing—Two hours a week one-third of the session. Professors Park, Wilson and Krumwiede, and Drs. Zingher Baker, Bowles, Harris, Schroder, Berry, Freeman and Guilfoy.

MEDICINE

Professor: Hermann M. Biggs

Professor of Clinical Medicine: Harlow Brooks

Assistant Professors: Robert J. Carlisle; Warren Coleman

Clinical Professors of Medicine: C. E. Quimby; L. K. Neff; M. Manges; A. Meyer; M. Fishberg; W. J. Pulley; T. J. Abbott; J. F. Nagle; E. P. Shelby; J. T. J. Bird; J. J. Wyckoff; L. B. MacKenzie; S. R. Blatteis.

Lecturers: E. F. Russell, E. S. McSweeney, W. A. Purrington; C. J. Tyson; M. Sturtevant; H. V. Guile

Instructors: B. L. Robins; M. P. Cowett; J. H. Carroll; H. V. Guile; E. J. Riley; G. R. Satterlee; G. N. Slattery; L. L. Shapiro;

L. H. Fisher; M. Barshak, J. Miller; T. B. Weinberg

Assistants: I. J. Levy; J. E. Sawhill

Second Year

Elementary Clinic—Once a week, during the second half of the session, an elementary clinic is held, at which the students are taught to consider cases of disease as illustrating departures from the physiological condition. The course is intended to introduce to the students cases of disease in which there are clearly defined manifestations of disturbances in the functions of some particular organ or system of organs. Professor Wallace.

Recitations—One a week for one-half the session. Dr. MacKenzie.

Physical Diagnosis—Practical exercises in the methods of physical diagnosis. For this work the class is divided into sections. Drs. Tyson, Robins, Cowett and Shapiro.

Third Year

Lectures—One a week throughout the session. In this course thorough consideration will be given to all of the more important diseases. Professor Brooks.

Recitations—Four a week throughout the session covering the matter considered in the lectures, will be held by Professors Brooks and Carlisle, and lecturers and instructors in medicine.

Clinics—Two a week in Bellevue Hospital, throughout the session, by Professors Biggs, Carlisle, Coleman and Brown and one clinical lecture in the college clinic by Professor Pulley.

Practical Work—Hospital, bedside and dispensary teaching, in medical and physical diagnosis, to small sections of the class in the wards of Bellevue Hospital, and in the college clinic.

Fourth Year

There are no didactic lectures on medicine during the fourth year. The work is wholly practical and clinical.

Clinics—Two general clinics a week throughout the session. Professors Biggs, Carlisle, Coleman and Brown.

Section Teaching.

In Bellevue Hospital. The entire fourth year class is assigned to practical work in Bellevue and other hospitals daily from 9 A.M. to 12 M. Students are regularly placed in charge of cases in the wards, are required to take the histories, make daily notes of the progress of the disease, and microscopical and bacteriological and chemical examination of the blood, sputum, urine, etc. They watch the treatment as conducted by the attending staff. Thus they have opportunities to study the natural history of disease as presented by the patients, and can follow cases of typhoid fever, pneumonia, etc., throughout their course from the beginning to their termination and in the event of death, can witness the autopsies. The bacteriologic and microscopic work is done under the supervision of special instructors assigned for this purpose. Professors Biggs, Brown, Abbott, Coleman, Nagle, MacKenzie, and Drs. Guile, Slattery and Sturtevant.

In other hospitals. Clinics and section teaching will be given during second half session by the members of the faculty on duty in other hospitals of the city, similar in character to that given in Bellevue Hospital. Members of the faculty are attached to the attending staffs of the Harlem, City, St. Vincent's, Mt. Sinai, Roosevelt, Gouverneur, Lebanon, Presbyterian, New York Foundling, Willard Parker, Riverside, the New York Eye and Ear Infirmary, Montefiore and Beth Israel Hospitals, etc.

In the College Clinic. Practical clinical instruction in physical and medical diagnosis will be given to the students in sections by members of the faculty and instructors in the college clinic and the out-patient department of Bellevue Hospital.

Individual Study—Members of the graduating class will from time to time be assigned to special cases for study in the wards of

Bellevue Hospital, in the out-patient department and in the college clinic. Students will be expected to make complete clinical examinations of these cases, prepare histories, and make the necessary examinations in the clinical laboratories, of the various secretions of the body, such as the sputum, urine, blood, stomach contents, intestinal discharges, etc., under the direction of the instructor in clinical microscopy.

Medical Conferences—Reports on the cases thus assigned will later be made at medical conferences. At these conferences students will discuss the case and will be expected to be prepared to answer questions in relation to the case, and to discuss it with other students in the section. From time to time special topics may be assigned to various members of the class for study and the presentation of short papers for discussion at the conferences. Professor Biggs.

Recitations—One a week throughout the session. Dr. MacKenzie.

SURGERY

Professor: George D. Stewart

Associate Professor: Arthur M. Wright

Professor of Clinical Surgery: William C. Lusk

Clinical Professors of Surgery: J. Douglas; H. A. Haubold; Walter C. Cramp; T. A. Smith; W. H. Lockett; C. A. Elsberg; C. Goodman; I. Levin; Robert P. Wadhams; C. G. Burdick

Lecturer; W. H. Barber; A. G. Keane

Instructors: G. F. Cahill; L. W. Crossman; H. C. Falk; E. King; P. Jordan; G. A. Koenig; M. J. Kutisker; L. C. Lange; A. Milici; J. Nelson; H. C. Russell; L. Sanman; I. Siris; M. M. Sweeney; C. W. Walker; H. B. Eisberg

Anesthetist: P. J. Flagg

Second Year

Clinic—One elementary surgical clinic a week second half of the session. At these exercises the students will receive elementary instruction in the recognition of the commoner surgical conditions and in applying the practical features of their instructions in anatomy, pathology and bacteriology to the diagnosis and treatment of the lesions presented by the patients. Professor Haubold.

Operative Surgery Laboratory Work—On the cadaver, three hours a week in sections during second half of the session. Dr. Walker and assistants.

Surgical Anatomy: Lecture—One hour a week throughout the session. Professor Haubold.

Recitations—One a week on the principles of surgery during second half of the session. Professor Haubold.

Third Year

Lectures—Two a week throughout the session, on the principles and practice of surgery. A part of this time, however, will be devoted to recitations on the most important features of the topics under consideration. In these exercises careful deliberation will be given to general, regional, and operative surgery. The class will be presented with a systematic classification of the topics taught. Professors Stewart, Douglas, Cramp, and Wadhams.

Recitations—Two a week, throughout the session, on the subjects covered by the lectures and assigned surgical topics. Professors Stewart, Cramp, Wright, Wadhams and Dr. King.

Conferences—One a week throughout the session.

Clinics—Two general clinics a week, throughout the session, in Bellevue Hospital, by Professors Stewart, Douglas and Cramp. One clinical lecture a week in the college clinic, by Professors Haubold and Keane.

Section Teaching—In the college clinic and out-patient department of Bellevue Hospital. Sections of the class will receive instruction in the surgical diagnosis and treatment of numerous instructive "walking cases."

Fourth Year

Clinics—One general surgical clinic a week, throughout the session, in Bellevue Hospital. Professor Stewart.

Section Teaching.

In Bellevue Hospital. In small sections, under competent supervision, the students of this class are required in the surgical wards of the hospital to practice history-taking, and to familiarize themselves with the details of the diagnosis, care and treatment of patients in all essential practical respects. The histories of patients and the conclusions resulting from their study by the students are utilized as a means of instruction by the professors in charge of the surgical conferences. In this manner the entire graduating class is continuously informed regarding the practice of the surgical ward, and each member in turn is afforded a golden opportunity of gaining a degree of practical surgical experience, under responsible guidance, unequal-

ed by many years of private practice. Professors Stewart, Douglas, Smith, Wright, Burdick, Wadhams, Cramp and Drs. Cahill, Barber, Koenig, Russell, Nelson, Sweeney and Siris.

In the Harlem, City, Mt. Sinai, and other hospitals, clinics and section teaching will be given during the second half session, by members of the faculty on duty.

Practical Work in the Hospital Outlined—Surgical cases in the hospital will be assigned to individual students for special study. They will be required to take the histories of the cases, make such examinations of blood, urine, morbid specimens, in the clinical laboratory, as may be necessary for diagnosis, and to outline the proper treatment. Reports of these cases will be prepared by the students having them under observation, and will be read by them at the surgical conferences. Also special opportunities will be afforded to study the administration of anæsthetics. Students will be given instruction in bandaging and the application of surgical appliances; also, they will be taught at the *bedside* to examine, diagnosticate and treat surgical diseases and injuries.

In the *operating room*, small sections of the class will receive instruction in the treatment of surgical cases, including amputations, fractures, dislocations, appendectomies, and minor surgery, etc. This plan of instruction makes the student familiar with the special and general requirements of the surgical treatment of miscellaneous cases.

Special Course in Experimental Surgery—Students receiving a sufficiently high rating during their first three years, will be permitted in small sections, to take a course in experimental surgery during the fourth year. The course will be similar to that given to graduate students. Drs. Barber and Eisberg

Recitations—One a week throughout the session. Professor Wright and Dr. Koenig.

Conferences—One a week throughout the session.

Genito-Urinary Surgery and Diseases

Professor: Alfred T. Osgood

Instructors: W. H. McNeill, Jr.; A. R. Stevens; W. E. Bailey; O. S. Lowsley; G. E. Plummer.

Third Year

Lectures—One a week during second half of the session on the principles and practice of genito-urinary surgery.

Fourth Year

Bedside instruction in the wards, Bellevue Hospital, to small sections of the class. This course will include a systematic presentation of the pathology, diagnosis, and treatment of diseases of the penis, urethra, prostate, seminal vesicles, testis, bladder and kidneys. The use of the cystoscope and endoscope will also be demonstrated as well as the valuable diagnostic aid derived from ureter catheterization and radiography in its relation to diseases of the urinary tract. The course is abundantly illustrated with cases of the diseases under discussion, and each student in turn is given the opportunity to personally examine such illustrated cases. Professor Osgood and Drs. Stevens, Lowsley and McNeill.

Section Teaching—Small sections of the class will receive practical instruction in the diagnosis and treatment of genito-urinary diseases in the college clinic. Professor Osgood and Dr. Bailey.

Special Work—The facilities of the clinical laboratory are at the disposal of students desiring to use them for the study of cases.

Orthopedic Surgery

Professor: Reginald H. Sayre

Clinical Professor: P. W. Nathan

Instructors: F. J. Wettersvik; J. J. Nutt; H. J. Keller.

Fourth Year

Lectures—Two clinical lectures a week during the first half of the session, in the college, where cases illustrative of the various deformities and of different joint diseases will be presented in person and shown upon the screen and methods of treatment demonstrated. Professor Sayre.

Section Teaching—Practical instruction in the diagnosis and treatment of cases in the college clinic, where students will personally make diagnosis, apply plaster of Paris dressings, and adjust splints of various kinds. Professor Sayre and Drs. Wettersvik, Nutt and Keller.

At the Montefiore Home, the section teaching will include the etiology and treatment of chronic joint diseases with special reference to hydrotherapy and mechanotherapy. Professor Nathan.

Diseases of the Rectum

Special instruction will be given on the surgical anatomy of diseases of and operation on the rectum, illustrated by special dissections, and instrumental demonstrations to small sections of the class. The demonstrations will be given immediately under the observation and with the aid of the students. Dr. Huppert.

ROENTGEN RAY TECHNIQUE

Professor: L. T. LeWald

A course of instruction in the use of the Roentgen rays in medicine and surgery will be given in the Edward N. Gibbs X ray Laboratory, and in the Roentgen ray department of St. Luke's Hospital.

The course will include: (1) Lectures and demonstrations on the various forms of Roentgen ray apparatus. (2) Practical instruction in the technique of fluoroscopic examinations and Roentgenography. (3) Demonstrations and instruction in the correct interpretation of Roentgenograms paying especial attention to pathological anatomy and variations in normal anatomy. (4) Studies in physiological processes in health and diseases, particularly of the digestive tract of children and adults.

The X ray laboratory contains a very complete equipment of appliances for Roentgen ray work and a collection of several thousand Roentgenograms, showing fractures, dislocations, malignant growths, bullets and needles in the body, lesions of the osseous system, pathological changes of heart and lung, and lesions of the urinary and digestive tracts. Professor LeWald.

OBSTETRICS

Professor: Austin Flint

Associate Professor: Frederick C. Rice

Clinical Professor: William M. Ford

Instructors: Frederick C. Freed; Arthur M. Reich; Ogden F. Conkey;
R. W. Nutter

Third Year

It is the aim of the department of obstetrics to devote the entire third year to the teaching of the theory of obstetrics.

The class is divided into sections and recitations are held twice a week for each section throughout the year. These recitations are based on subject matter assigned in advance from a standard textbook. The division of the class into sections for recitation work enables us to follow more closely the individual work of the student. This method has been practiced for the past few years and the results are much more satisfactory than the previous method of depending on didactic lectures alone. The subject matter covered by the recitations is demonstrated when necessary by the use of specimens, charts and maps. Associate Professor Rice and Drs. Freed, Reich, and Conkey.

Lectures—During the year, in addition to recitations, lectures are given by Professor Flint at frequent intervals on the more important subjects as they are reached in the recitations. During the second half of the year lectures covering the pathology of obstetrics illustrated by lantern pictures will be given by Professor Fraser of the pathological department.

Manikin—The class will be divided into sections of about ten men. Each section will have eight hours of instruction. Students will be required to perform on the manikin all of the usual obstetrical operations. Exercises will also be given in the diagnosis of position and presentation and a review of the mechanism of normal and abnormal labors. Drs. Freed and Reich.

During the second half of the session sections of about twelve men will be summoned to witness unusual operations for obstetric conditions which may occur in the obstetric ward of Bellevue hospital during the regular hours of attendance at the college.

Standing of Students—An oral examination will be held at the end of the first half of the session and a written examination at the end of the year. In making up the standing of students a final examination will be counted one-third; recitation marks and class work one-third; and the mid-year examination, one-third.

Fourth Year

The extensive clinical material available in the obstetrical wards of Bellevue Hospital and the Manhattan Maternity Hospital affords an opportunity for thorough teaching of practical obstetrics during the entire fourth year.

This material is made use of for demonstrations to the entire class or to small sections of the class in the wards and in the delivery rooms under the personal supervision of the teaching staff of the college.

Lectures and Clinics—Each week throughout the year Professors Flint and Rice will give a lecture or clinic for the entire class. In this way various subjects, although covered by the recitations during the third year, are more thoroughly treated by lectures combined with the presentation of case histories and clinical material.

Ward Work—Sections of fifteen men are assigned to the Manhattan Maternity or Bellevue Hospital twice each week for periods of one month. These sections, under the supervision of instructors from the college and the resident staff of the hospitals, are instructed in the routine care of the patients before, during and after delivery.

They have an opportunity of observing the methods of management of abnormalities. Students are also given demonstrations on the details of obstetrical nursing of the mother and baby.

Each section visits a maternity center at least once and is instructed in the methods employed in giving prenatal care and the importance of such care is demonstrated.

GYNECOLOGY

Professor: Frederick C. Holden

Clinical Professor: Onslow A. Gordon, Jr.

Lecturer: Edwin W. Holladay

Instructors: J. F. McGrath; D. N. Barrows; J. P. Hennessy; F. W. Sovak; T. E. Lavell; W. M. Higgins.

Third Year

It is the intention of the department that the third year student be instructed primarily in gynecological pathology and diagnosis. This is accomplished by:

Lectures and Recitations—One each week throughout the session on a subject assigned in advance, upon which the students are prepared. Professor Holden.

Section Teaching—The session is divided into three semesters. The first semester is occupied by recitation work from the text. The second semester is devoted to a study of gynecological pathology. During the third semester the work is in the out-patient department of Bellevue Hospital, where there is afforded a wonderful opportunity for clinical study. To facilitate this work the class is divided into eight sections, each instructor having two sections once a week. A written examination is held at the close of each semester. Drs. Barrows, Hennessy, Sovak, Lavell.

Fourth Year

Section Teaching—The class is divided into eight sections, each section having one month of intensive gynecological training. The students are in the wards of Bellevue Hospital three mornings a week. Cases are assigned to the individual student and they are held responsible for the history, physical examinations and routine laboratory work. Following a thorough study of the case the student submits his report accompanied by his provisional diagnosis. The characteristic, as well as the unusual cases are discussed in conference by the

entire section. Each student follows his case to the operating room or until the time of discharge from the hospital. Professor Gordon and assistants.

Operative Clinics—The entire section on duty in the hospital attends the operative clinic one morning a week. Professor Holden.

PEDIATRICS

Emeritus Professor: William P. Northrup

Professor: Rowland G. Freeman

Clinical Professors: A. F. Hess; C. F. Collins; Stanley Brady

Instructors: W. M. Hartshorn; I. H. Goldberger; L. B. Sachs; R. W. Mitchell; T. W. Carey; H. R. Mixsell; E. S. Rimer

Third Year

Lectures—One a week, throughout the session on the normal infant and child, methods of examination, the general care and feeding of the growing infant, and the diseases of children. Professor Freeman.

Recitations—One a week throughout the session. Drs. Mitchell and Rimer.

Fourth Year

Section Teaching—Bedside instruction in the feeding of infants, in the diagnosis and treatment of diseases of children, history taking and recording in the Roosevelt Hospital, St. Luke's Hospital, Harlem Hospital, New York Foundling Hospital; New York Nursery and Child's Hospital, the Hebrew Orphan Asylum. Professors Freeman, Hess, Collins and Brady and Drs. Hartshorn and Mixsell.

Instruction in contagious diseases in the Willard Parker Hospital. Dr. Carey.

Instruction in contagious diseases on the Willard Parker Scarlet Fever Hospital. Professor Hess.

NEUROLOGY

Professor: Edward D. Fisher

Clinical Professor: I. Abrahamson

Lecturers: M. Neustaedter; W. Steinach

Fourth Year

Lectures—Twice a week during first half session. These lectures are clinical, being illustrated by cases of the diseases under discus-

sion, and include a systematic course of instruction in the diseases of the brain and spinal cord; their pathology, diagnosis, and treatment. Professor Fisher.

Section Teaching—1. Bedside instruction or clinics, second half session, in Bellevue Hospital. 2. Instruction in the methods of diagnosis in nervous diseases, in the college clinic. During this course the students will have opportunities to examine the patients, with a view to arriving at a diagnosis. 3. Instruction in electro-diagnosis and electro-therapy, in the college clinic. Professor Fisher and Drs. Neustaedter and Steinach.

Facilities

Clinical material for instruction in nervous diseases is drawn from Bellevue Hospital and the college clinic.

PSYCHIATRY

Professor: Menas S. Gregory

Instructor: Sylvester R. Leahy

Third Year

Lectures and Clinical Demonstrations—One a week, second half of the session. These lectures will cover the main facts in modern psychiatry, including the nature, mental mechanism, causes, diagnosis, prognosis, and treatment of various forms of mental diseases, particular emphasis being given to the important facts and the types of mental disorders which more especially concern physicians in general practice. The course is given in the psychopathic department of Bellevue Hospital, with its wealth of material, especially rich in acute psychoses and mental disorders symptomatic of physical diseases. Some facts in relation to the medico-legal aspects of mental diseases which will interest the general practitioner are discussed and instructions given in the examination and commitment of the insane.

Fourth Year

Lectures and Clinical Conferences—One a week during first half of the session. The course will consist of the discussion and demonstration of wild mental disturbances, with special emphasis on the so-called "borderline" cases and a full discussion of neuroses and psychoneuroses, including their psychological mechanism and treatment.

Facilities

Illustrative cases of mental diseases are furnished from the psychopathic ward at Bellevue Hospital.

OPHTHALMOLOGY

Professor: John E. Weeks

Clinical Professor: W. H. Wandless

Instructors: S. Ingerman; B. W. Key; W. W. Weeks.

Fourth Year

Lectures—Two a week, first half session, on the external and internal diseases of the eye; the former being illustrated by cases, and both by a full series of excellent colored lantern slides. Professor Weeks.

Section Teaching—Small sections of the class will receive practical instruction in the recognition and diagnosis of all the usual external affections of the eye, some practical instruction in the treatment of diseases of the eye and the correction of errors of refraction; also practical instruction in the technical use of the ophthalmoscope, during which the student will become familiar with the appearances of the normal fundus oculi, and be shown many pathological changes in the fundus oculi. Professor Wandless. A quiz course will be given during the latter part of the college year, covering the subjects gone over in the regular lecture course, for the purpose of review.

Special Work—Students desiring a more complete knowledge of diseases of the eye, including errors of refraction and their correction and ophthalmic surgery, can, if fitted for the course, obtain facilities for pursuing those studies under the auspices of the college in private classes. Those wishing to make a study of the normal and pathological histology of the eye can also avail themselves of opportunities which will be offered.

Facilities

Clinical material is obtained from the outdoor poor department of Bellevue Hospital, the college clinic, and from the New York Eye and Ear Infirmary. The college clinic is fitted with the necessary equipment for practical work with the ophthalmoscope.

DERMATOLOGY AND SYPHILOLOGY

Professor: William B. Trimble

Lecturer: John J. Rothwell

Instructors: G. A. Cherry; C. J. Halpern; J. Frank Fraser

Fourth Year

Lectures—Two a week during the first half of the session. The lectures will be partly didactic, partly clinical. The epidiascope will be used to project lantern slides, microscopic sections and photographs to illustrate these lectures. The course will consist of a systematic presentation of the diagnosis, pathology, and treatment of cutaneous disease, particular attention being also given to the differential diagnosis between syphilitic and non-syphilitic affections. Lectures covering the subject of syphilis will include one outlining the history of the disease and the developments which have led up to our present knowledge of it; two or more on the microbiology, general pathology and experimental work; two or more on the cutaneous manifestations and concomitant constitutional disturbance incidental to the early infectious stage; one on the later manifestations of the disease; one on hereditary syphilis and one or more lectures on the general treatment of the disease. Professor Trimble.

Section of Teaching—Instruction in the diagnosis and treatment of diseases of the skin will be given to small sections of the class in the college clinic. As the attendance of the outdoor department is very large, students have an excellent opportunity to become familiar not only with the common but with the rarer cutaneous affections. An X ray and high frequency apparatus make up part of the equipment of the clinic, and the method of using these agents in the treatment of skin diseases will be taught to section classes. Drs. Rothwell, Halpern and Cherry.

Laboratory Work—In the dermatological laboratory and in the college clinic, sections of the class will be instructed in the microscopical examination of hairs and scales for parasitic fungi; methods of preparing culture media and differentiation of the dermatophytes. Methods of making biopsies, the manner of using physical agents in dermatology and other minor surgical procedures will also be demonstrated. Drs. Rothwell, Halpern and Fraser.

Facilities

Clinical material for section teaching and for illustrating the lectures is derived from the college clinic, and the dermatological wards of the New York Skin and Cancer Hospital.

The dermatological department includes a well-equipped laboratory which is provided with cultures of the parasitic fungi and several thousand sections of the common as well as the rare lesions of the skin. All the types of malignant diseases of the skin are represented in this collection. The laboratory is available for the advanced study of the pathology of cutaneous diseases.

OTOLOGY

Professor: Edward B. Dench

Clinical Professor: C. E. Perkins

Instructors: A. Kahn, I. K. Wiener

Third Year

Lectures—One each week, during the second half of the session, on the diseases of the ear. The various pathological conditions are described and demonstrated to the class by the use of large models. In this manner it is possible to give the class a clear idea of the appearance of the parts. In addition to the use of the models, both wet and dry anatomical specimens are presented for inspection. All operations are demonstrated on the cadaver. Particular care is taken to present the subject from the standpoint of the general practitioner and to render each student competent to treat intelligently those diseases of the ear which demand immediate attention. Professor Dench.

Fourth Year

Section Teaching—Small sections of the class will receive practical instruction in the examination of the ear and the diagnosis and treatment of aural disease. The section work is given in the college clinic, where the students are given the opportunity to study and to become familiar with all the commoner lesions. Clinical Professor Perkins and Dr. Kahn.

Operative Otology—A practical demonstration of the various otological operations will be made upon the cadaver before small sections of the class.

Elective Course—Operative clinic on otology at the New York Eye and Ear Infirmary, every Monday afternoon at three o'clock and at St. Luke's Hospital every Thursday afternoon at half past two o'clock. Professor Dench.

Special Work in Otology—A special elective course in otology will be given for those students who have completed their section work and desire to avail themselves of this advanced instruction. This work will be carried on in the college clinic, where the material is ample for such instruction. Certain cases will be assigned to students taking this work, and they will be permitted to carry out the actual treatment of these cases, under the supervision of the attending otologists and their clinical assistants. In this way, the student may become familiar with the manual dexterity so necessary in

treating cases of this kind. The material furnished by the college clinic is exceedingly large, and will enable students to observe all of the ordinary pathological conditions of the ear which are liable to be met with in practice.

Facilities

The clinical material used to illustrate the lectures and for the section teaching is drawn from the college clinic, the out-patient department of Bellevue Hospital, the New York Eye and Ear Infirmary and other sources.

LARYNGOLOGY AND RHINOLOGY

Professor: Lee M. Hurd

Clinical Professor: J. McCoy

Lecturers: A. J. Huey; J. Coleman

Instructor: L. F. Sturges

Third Year

Recitations—One a week, during the second half of the session. There will be recitations in place of the lectures. Definite lessons will be assigned each week, which will be prepared from a text-book. The student will be marked on his recitations as well as on his final examinations. Professor Hurd.

Fourth Year

Section Teaching—Small sections of the class will be taught the regional anatomy of the nose and throat by means of preserved specimens and models; the methods of rhinological and laryngological examination, with an opportunity to practice those methods on cases, and the medicinal and operative treatment of cases of disease of the nose and throat. Professors Hurd and McCoy and Drs. Huey and Coleman.

Special Work—An optional course in the diseases of the nose and throat is offered to those students who are prepared to take it. The course will include practical drill in diagnosis and treatment. Opportunities to perform minor operations will also be accorded to students who show sufficient proficiency.

Facilities

The clinical material available for instruction is drawn from the college clinic and Bellevue Hospital.

Special Subjects

Short courses of lectures or demonstrations on the following subjects will be given during the fourth year:

Pathological Chemistry (Herter Lectures)

Sanatorium Treatment of Tuberculosis

Medical Jurisprudence

Life Insurance Examination

Ethics in Medicine

Herter Lectureship on Pathological Chemistry

The late Dr. Christian A. Herter, former professor of pathological chemistry in the college, through the Council of New York University provided a fund for an annual course of lectures on this subject.

The lecturer for session 1920-1921 will be announced later.

SPECIAL AND GRADUATE COURSES

The following courses of instruction, offered to graduates in medicine and others, are designed to meet the needs of those desirous of pursuing special advanced studies along the following lines. In some instances, the courses will be given only upon the application of a sufficient number of students. The prerequisite qualifications for the individual courses vary widely and it is always advisable to consult the head of the department in this regard. It is sometimes possible to take two or more of the courses at the same time. To those requiring more detailed information, folders will be sent on application. For general information with reference to these courses communicate with John Wyckoff, M.D., Secretary.

COURSES IN PUBLIC HEALTH AND SANITATION

Those interested in the advancement of public health have long recognized that it would be a great step in advance if sanitary officers in this country were required, before receiving their appointments, to have suitable knowledge and training in hygiene. The Public Health Commission appointed by ex-Governor Sulzer appreciated this fully, and made in their report a recommendation that "Medical Colleges in New York State introduce courses in sanitary science leading to a degree, which ultimately might be required of all health officers." The Public Health Council, in June, 1915, added a strong recommendation that the universities also give two shorter courses so that the majority of health officers would have at least some additional training to that which they now possess.

Three courses, therefore, have been developed in which laboratory work, lectures and field work will be combined. The courses follow the suggestions of the Public Health Council. Men and women who have had extensive experience in the service of the Department of Health of New York City will coöperate in making the courses of the greatest value. One of the most important of the courses, consisting of field work, laboratory work, lectures and conferences, will cover one day a week for thirty-six weeks. The course is given during the fall and spring months. The course leading to the degree of doctor of public health for those having a degree of doctor of medicine requires eight months of study and practical work during the first year, the second year being devoted to original work and the writing of a thesis. Those who have not been in public health work must give the greater part of the day for the whole eight months. Those who have devoted themselves to this line of work for two or more years may be given credit for what they have learned and give only the hours required to complete the course, provided that at least 15 hours be given weekly to routine and advanced investigations.

This course will be given if five or more students desire to take it.

There will also be an extension course covering three hundred hours of home reading on selected books and written examinations with a final week for inspections and work in the hospitals for contagious diseases and in the laboratories at the University. The extension course begins at any time.

Tuition Fees and Credit

New York City offers an unrivalled opportunity for the study of methods of disease prevention. Those who take the eight months' course and pass the practical and written discussions on topics treated in the books will receive a certificate of efficiency in public health. Those having the degree of doctor of medicine, upon the completion of the course and the presentation of a satisfactory showing thesis evidence of nine months' original work on some problem connected with public health or sanitation, will receive the degree of doctor of public health.

The fee for the course leading to the degree of doctor of public health will be \$200 for the first year and \$25 for the second year.

The approval of the Commissioner of Health of New York City, as well as of the bureau chiefs of the Department of Health, permits the courses to be given under very favorable conditions.

The Correspondence Course

This course requires but one week's residence in New York, the balance of the work being taken by correspondence. A new course begins each year on October first, but health officers may commence at any time and finish at any time. The minimum number of hours of home study is three hundred, and the subjects are those selected by the Public Health Council. The reading matter consists of about three thousand printed pages. Those taking the course must designate in advance what days are to be spent in the city so that suitable arrangements may be made for inspections and laboratory work.

The Residence Week

The week's work in the city may be taken either at the end of the course or at an earlier period, if the prescribed reading on communicable diseases, water, milk and bacteriology has been completed.

It is the desire of those giving the course to make the taking of this important week of practical work as little of hardship as possible. Courses are given, therefore, at four different dates, with the hope that some one of these periods will meet the convenience of every one. The six days can, if desired, be taken in the different periods.

Division of the Week's Course into Two or More Portions

The work in the city should, if possible, be taken in one week, but if necessary, it may be divided into two or three portions. The work of Monday and Tuesday cannot be taken up separately, nor that of Wednesday and Thursday.

As diphtheria, scarlet fever and measles rapidly diminish after June 1 and do not again increase much before October, it is hoped that as many as possible will take the two days devoted to laboratory work and communicable diseases in the month of April, so that a sufficient number of suitable cases may be present in the hospital wards for study and discussion.

Examinations

Those taking the correspondence course will receive advice concerning the books and monographs to be read, and a series of questions covering the subjects studied will be mailed. These questions are to be answered as fully as possible and the answers will be corrected and discussed by experienced persons and returned. A final practical examination is given or in some cases a set of questions is sent in

sealed envelopes which must be answered without help. Most of the books used are covered by a series of questions to be used and answered by the readers so as to judge themselves of their progress.

Required Books

Each student is required to own a recent edition of a comprehensive book on hygiene and bacteriology. The other books and pamphlets required in the course will be sent by parcel post as required. The only expense for the loaned books will be the postage. A deposit of \$5 will be required to defray the postage and the deterioration of the books. The books used in the correspondence course can be returned or bought at a reduced price.

Fees

The fee for either the correspondence course or the twenty-six days' residence course is \$25 in addition to the matriculation fee of \$5 for those who have not previously attended the University.

GRADUATE COURSES

Department of Anatomy

I. Research in Anatomy—Problems in vertebrate embryology. Professor Senior.

II. Research in Human Anatomy, adult and developmental. Professor Thyng.

Department of Chemistry

I. Research Courses—Advanced and special work in the laboratory. Professor Mandel.

II. Blood and Urine Analysis—Advanced work on the chemical analysis of blood, urine and foods. Professors Mandel and Gettler.

Department of Pharmacology and Applied Therapeutics

I. Research in Pharmacology—Special work in assigned subjects. Professor Wallace.

II. Hospital and Laboratory Course in Applied Therapeutics—The therapeutic action of drugs on animals is investigated and their application to patients studied. Professors Brown and Wallace.

III. Research Course in Applied Therapeutics—Special work, laboratory and clinical, in assigned subjects. Professors Brown and Wallace.

Department of Physiology

101-102. Nutrition and Diet Selection—Study of the principles upon which normal and special diets are based. Professor Jackson.

103-104. Advanced Physiology—Preparation for research work. Professor Jackson.

201-202. Research Courses—Advanced and special work in the laboratory. Professor Jackson.

203. Pathological Physiology—Laboratory course on abnormal function. Prerequisite Physiology 103-104 Assistant Professor Prewitt.

Department of Pathology

I. Systematic work along special or advanced lines will be carried out in any of the branches of pathology; gross, microscopic and experimental. Problems for original investigation will be assigned in suitable instances. See bulletin of the Graduate School. Professor Fraser.

II. Clinical Pathology—Practical courses and special investigations in the following topics:

1. Blood—Methods of investigation of the blood and the study of pathological blood diseases.

2. Animal Parasites—Morphological characters, development, with methods of collecting, preserving, examining, staining, and mounting Helminthes met with in tropical diseases.

3. Serology—Complement fixation as in syphilis (Wassermann) and gonorrhoea. Preciptin tests and agglutination reactions.

4. Body fluids—Investigations of cerebro-spinal fluid, exudates, transudates and cyst contents.

5. Examination of normal and pathological excreta, as urine, feces, and sputum.

6. Investigations of normal and pathological gastric contents. Professor A. R. Mandel.

Department of Surgery

I. Course in Advanced Surgery, Theoretical and Applied.

(a) Applied Surgery—Study of cases in the wards. Professor Stewart.

(b) Experimental laboratory course, with demonstrations of the relation of physiology to applied surgery. Dr. Barber.

(c) Selected operative surgery on the cadaver and surgical anatomy. This course is offered as a unit to surgeons desiring special work in the advanced problems of modern surgery; but individual portions of the course may be selected. Dr. Walker.

Department of Bacteriology

I. Course on Hygiene—Lectures and field work similar to that taken in the third year of the medical course. Professor Park and special lecturers.

II. Courses in Bacteriology.

(a) Principles of bacteriology similar to that taken in the second year of the medical course. Assistant Professor Noble.

(b) Applied bacteriology. Professors Park, Krumwiede and Noble.

(c) Studies on a selected subject. Professors Park, Krumwiede and Noble and special lecturers on hygiene.

(d) Special course in principles of bacteriology on Saturday mornings.

Clinical Departments

The following courses have been arranged and are planned to occupy about six weeks each.

I. Medicine and Physical Diagnosis

II. Clinical and Operative Gynecology

III. Genito-Urinary Diseases

IV. Laryngology

V. Ophthalmology

VI. Pediatrics

VII. Dermatology

PRIZES AND HOSPITAL APPOINTMENTS

Mott Prize Medals

By the will of the late Dr. Valentine Mott, a founder of the University Medical College, and for many years its president and professor of surgery, perpetual provision was made for the following medals:

A gold medal to the candidate who shall prepare the best anatomical or anatomico-surgical preparation.

A silver medal to the second best preparation.

A bronze medal to the candidate who shall furnish the best notes (typewritten) of recorded cases and remarks of the professor of either of the surgical clinics.

Candidates for graduation, as well as first, second and third year students, may compete for these medals.

The preparations shall belong to the University Mott Prize Museum and be labeled with the name of the maker.

Reports of cases shall belong to and be deposited in the library.

The specimens are to be presented anonymously, accompanied by a device or motto.

The medals are not to be awarded except when the specimens presented are of sufficiently good character.

Further information regarding the preparations or reports will be furnished by the professor of anatomy or surgery.

Christian A. Herter Research Scholarship

This scholarship was founded for the encouragement of research in chemical pathology, physiological chemistry or pharmacology. The annual income (\$300) will be awarded each year to a graduate, or undergraduate, who has already demonstrated aptitude for physiological and chemical research.

Glover C. Arnold Surgical Prize

A prize of one hundred dollars is offered to any member of the senior class passing the best examination in general surgery. This prize was established by the family of the late Dr. Glover C. Arnold, a graduate of the Bellevue Hospital Medical College, class of 1873.

Egbert LeFevre Scholarship

This scholarship was founded by the Council of New York University on February 17, 1916, in memory of Dr. Egbert LeFevre. The candidate for this scholarship is chosen by the faculty of Rutgers College from the members of the graduating class.

Leo Robins Memorial Prize

This prize is to be awarded annually by Dr. Bernard L. Robins to a member of the graduating class for the completion of special work in medicine or therapeutics, the details of which will be announced at a later date.

Hospital Appointments

The graduates of this college are eligible for admission to the competitive examinations held for positions on the house staff of

the following hospitals. In addition to the hospitals in the Department of Public Charities, there are no less than twenty-four hospitals, not including special hospitals, in which appointments to the house staffs are open to competition. The most prominent of these are the Bellevue Hospital, City Hospital, Harlem Hospital, Gouverneur Hospital, Fordham Hospital, St. Luke's Hospital, the New York Hospital, St. Vincent's Hospital, St. Francis' Hospital, General Memorial Hospital, Mount Sinai Hospital, the Wyckoff Heights Hospital, the French Hospital, the Italian Hospital, Roosevelt Hospital, N. Y. Post Graduate Hospital, St. Mark's Hospital, New York Foundling Hospital, Willard Parker Hospital, Riverside Hospital, Reception Hospital, Kingston Avenue Hospital, Washington Heights Hospital, Woman's Hospital.

Division of the Examination for License to Practise Medicine in New York State

In 1901 the medical law was amended to give the regents power to admit conditionally to the licensing examinations in anatomy, physiology and chemistry, applicants certified as having studied medicine not less than two full years of at least nine months each, including two satisfactory courses of at least six months each, in two different calendar years, in a medical school registered as maintaining at the time a satisfactory standard; provided that such applicants are more than 19 years of age, of good moral character, and have the requisite preliminary education, and pay a fee of \$25.00; the final examinations in hygiene and sanitation, surgery, obstetrics, gynæcology, pathology including bacteriology and diagnosis, to be met after having finished the full period of study and having received the medical degree. The regents may, in their discretion, accept as the equivalent of the first year of medical study evidence of graduation from a registered college course, provided that such college course shall have included not less than the minimum requirements prescribed by the regents for such admission to advanced standing.

**Address all Communications Concerning License Examinations to
Examination Division, Department of Education, Albany, N. Y.**

Students who have passed anatomy, chemistry, physiology and hygiene will be admitted to advanced standing in this college without further examination in these subjects.

MEDICAL PREPARATORY COURSE

Requirements for admission to the University and Bellevue Hospital Medical College include a minimum of two years of college work in addition to graduation from an approved four year high school course covering certain required courses or its equivalent. This college work must include courses in physics, chemistry, and biology. To meet this requirement the College of Arts and Pure Science of New York University offers a two year medical preparatory course which includes these required subjects, the certificate of completion of which entitles the student to admission to the first year of the Medical College.

This course is offered in two divisions; the first, for those completing their secondary preparation in June, will extend throughout the regular college year from September to the following June, the second, for those completing their high school course or its equivalent in January, will extend from January 31 to September 17, 1921. A student who is prepared for college at the middle of the year will thus be enabled to enter the sophomore class the following October and save one year's time in the preparation for his profession.

Admission

Entrance to the preparatory college course for medical students will be based upon any one of the following evidences of qualifications:

(1) A diploma of graduation from a four-year high school course recognized by the regents of the University of the State of New York.

(2) A certificate of the regents of the University of the State of New York, earned by passing 72 counts at 75 per cent. and showing that the applicant has completed the equivalent of a four-year high school course.

(3) A certificate of the College Entrance Examination Board covering fifteen units of secondary school subjects.

(4) Entrance examinations of the college covering fifteen units of secondary school subjects.

(5) A certificate of admission to the freshman class of a recognized college.

All applicants are required to pass psychological and personnel tests before admission.

NOTE: All certificates presented for admission to the medical preparatory course must show that the applicant has completed fifteen units of secondary school subjects, including those prescribed for admission to Section C. See college bulletin for detailed statement.

Matriculation

Matriculation and registration will follow the general regulations except that students entering for the February-September division may matriculate and register at any time during the week preceding the opening of the term.

For matriculation blanks and further information apply to Dean A. L. Bouton, New York University, University Heights, New York.

Fees

Fees for the medical preparatory course are as follows:

Matriculation fee (paid once only)	\$5.00
Tuition fee	240.00
Total laboratory fees for each year	\$26.00 to \$36.00
Athletic association fee	10.00
Fee for non-athletic student activities	7.50
Military incidental fee	5.00

The tuition fee is payable \$140 at the beginning of the first term, and \$100 at the beginning of the second term, ten days' grace being allowed at the end of which time non-payment will debar from classes. This rule applies also to room rents.

Calendar

The first (September-June) division will begin on Monday, September 20 and extend to Wednesday, June 8, with the following holidays: November 2, Election Day; November 25-27, Thanksgiving recess; December 23-January 1, Christmas recess; March 24-26, Easter recess; May 30, Memorial Day.

The second (February-September) division will begin on January 31, will continue to September 17 with the following holidays and vacations: March 24-26, Easter recess; May 30, Memorial Day; June 6-11, Commencement recess, and July 4, Independence Day.

ROLL OF STUDENTS 1919-1920*

Fourth Year Class

Alexander, Milton H., 2048 Mapes Avenue
Alper, Jacques P., 164 Madison Street
Amzalak, Edward S., Box 55, Hempstead, L. I., N. Y.
Anopol, George, 502 West 139 Street
Apperman, Isaac, 472 Gates Avenue, Brooklyn
Arnold, J. Jacob, 1585 Madison Avenue
Barbarito, William Nicholas, 435 Main Street, Danbury, Conn.
Bendetson, Joseph Selic, 1324 43d Street, Brooklyn
Ben Avi, Sigmund, 75 East Second Street
Bloch, Harry, 359 East Jersey Street, Elizabeth, N. J.
Bloom, Jacob Maurice, 1018 East 179 Street
Blum, Henry, 1390 Prospect Avenue
Bove, Joseph, 72 Park Street, Orange, N. J.
Brody, Morton S., 10 Rutgers Place
Buda, Mario Alfred, 401 East 16 Street
Chianchiano, Giachino, 600 Marcy Avenue, Brooklyn
Coe, Meyeron, 133 West 116 Street
Cohen, Abraham, 97 Cortlandt Street, North Tarrytown, N. Y.
Cohen, Moses, 1441 53 Street, Brooklyn
Cumbler, George William, 78 27th Street, Elmhurst, L. I., N.Y.
Curran, William Louis, North Adams, Mass.
Decker, Albert, 180 Claremont Avenue
DePietro, Joseph, 186 Spring Street
Di Giorgi, Matthew, 338 East 21 Street
Donheiser, Emanuel, 850 East 161 Street
Fauerbach, Louis, Jr., Sc.B., Madison, Wisconsin
Federman, Samuel, 86 Grand Street, Hoboken, N. J.
Feigin, Samuel, 1095 Dumont Avenue, Brooklyn
Feinberg, Harris, 911 Tiffany Street
Fine, Jacob, 81 Henry Street, Stamford, Conn.
Fisher, Irwin, 146 Essex Street
Ford, Francis, A.B., 30 Gaskill Avenue, Jeanette, Pa.
Frankel, Mandel, 353 Beekman Avenue
Frevola, John, 208 21 Street, Brooklyn
Ginsburg, Meyer, 1534 48 Street, Brooklyn
Gochman, Harry Mitchel, 280 South 2 Street, Brooklyn

*Where no city is given, New York is to be implied.

- Goldberg, Burtis Eugene, *Belgrove Drive, Arlington, N. J.* 117 East 28 Street
- Greisman, Harry, 239 Sumner Avenue, Brooklyn
- Grimaldi, Americo John, 1914 7 Avenue, Tampa, Florida
- Hannan, Bernard D., *16 Rogers Street, Glens Falls, N. Y.* 129 Lexington Avenue
- Hechtman, Aaron, 17 Varet Street, Brooklyn
- Herrman, Harold C., 24 East 99 Street
- Hirsch, John, 5213 Ft. Hamilton Avenue, Brooklyn
- Ide, David, 69 East 109 Street
- Jaffe, Henry L. 58 Sack Street, Stratford, Conn.
- Kastenbaum, Charles, 109 Second Avenue
- Kera, Henry M., 181 Sheridan Avenue, Brooklyn
- Kimbrig, Max, 1154 DeKalb Avenue, Brooklyn
- Klein, Samuel Moses, 55 West Jackson Avenue, Corona, L. I., N. Y.
- Koblenz, William, 609 East 170 Street
- Kolb, John Martin, *821 N. American Street, Stockton, Cal.,* 725 Aym's Street, West Hoboken, N. J.
- Kornblut, Alfred, 318 Main Street, Ansonia, Conn.
- Landon, H. Robert, 177 Norfolk Street
- Lederfeind, Nathan, 418 West 40 Street
- Ligget, Harold, 1645 Park Avenue
- Lehman, Max, 109 Second Avenue
- Levin, Charles Morris, 1725 Briggs Avenue, Glen Morris, L.I., N. Y.
- Levy, Abraham L., 76 Rockaway Avenue, Brooklyn
- Lorenz, Adolph, 31 West 129 Street
- Lueddecke, Roland Ehlers, 147 Sherman Street, Passaic, N. J., 117 East 28 Street
- McManus, James Patrick, Towners, N. Y.,
- May, Israel, 98 Boerum Street, Brooklyn
- Miller, Lester, 700 St. Mark's Avenue, Brooklyn
- Muzante, Joseph Bernard, Glen Cove, L. I. N. Y.
- Nash, Edward Myron, A.B., 1187 Lexington Avenue
- Newman, Louis I., 1427 Madison Avenue
- Newman, Samuel, 148 East 27 Street
- Odén, Constantin Luther Ambrosius, Sc.B., *Belvidere, Ill.* 338 East 26 Street
- Otto, Harold L., D.D.S., 385 Convent Avenue
- Pagliughi, John Joseph, 405 Park Avenue, Union Hill, N. J.
- Parry, Oliver Kesler, A.B., *3387 Highland Drive, Salt Lake City, Utah.* 152 East 22 Street

- Pierson, Herbert Seymour, 216 *Monroe Street, Syracuse, N. Y.* 1726
Lexington Avenue.
- Pindler, Louis A., 41 Floyd Street, Brooklyn
- Pirunduni, Anthony, 148 Lorimer Street, Brooklyn
- Posner, Abraham Charles, 273 Wyona Street, Brooklyn
- Preas, Bruce Bushong, *Johnson City, Tenn.* 152 East 22 Street
- Prewitt, Proviso V, A.B., M.A., 417 West 120 Street
- Raab, Abraham, 675 East 170 Street
- Robbins, Marc, 1689 St. Johns Place, Brooklyn
- Reich, Samuel, 35 Covert Street, Brooklyn
- Reich, William, 108 East 116 Street
- Reitnauer, John S., 25 West 125 Street
- Rembe, Walter J., 2540 Boulevard, Jersey City, N. J.
- Ridgway, James E., *Jackson, Miss.* 2702 Marion Avenue
- Rose, Ben-Henry, 119 Henry Street
- Rose, Samuel Allison, 41 Henry Street, Stamford, Conn.
- Rosenblum, Jacob, 504 West 158 Street
- Rosenfield, Harold Herman, Main Street, Manville, R. I.
- Ruskin, Simon Lyon, 1625 Eastern Parkway, Brooklyn
- Salzman, Nathan, 633 East 27 Street, Paterson, N. J.
- Scheer, Henry Isaac, Sc.B., 472 East 146 Street
- Schepps, Jesse, 141 Stockton Street, Brooklyn
- Schiff, Charles Haskell, 127 Vernon Avenue, Brooklyn
- Schiff, Irwin, 912 Myrtle Avenue, Brooklyn
- Schimpf, William Howard, 443 West 34 Street
- Seidman, Philip, 1431 Madison Avenue
- Seligman, Bernard, 277 South 5 Street, Brooklyn
- Siragusa, James J., 11 *Vassar Street, Dorchester, Mass.* 217 East
31 Street
- Skolnick, Irving R., 205 Broome Street
- Slayton, Maximillian Henry, 12 East 114 Street
- Solk, Arthur G., 97 *North Broadway, Long Branch, N. J.* 217 East 31
Street
- Sternberg, Bernard, 905 Gates Avenue, Brooklyn
- Telson, David R., Beach 49 Street and Surf Avenue, Sea Gate, L. I.,
N. Y.
- Tennen, Joseph Seymour, 277 Sumpter Street, Brooklyn
- Thron, Daniel, 1230 Southern Boulevard
- Tolk, Nathan R., 581 *East Washington Avenue, Bridgeport, Conn.*
565 West 139 Street
- Wagner, George Arthur, Rockaway Park, N.Y. 152 East 22 Street

Weinberg, Jacob, 372 Alabama Avenue, Brooklyn
 Weinstein, Sydney D., 160 Utica Avenue, Brooklyn
 Weinstock, Louis, 117 First Avenue
 Wellen, Irwin, East 109 Street
 Wertheim, Hippolyte Marcus, 1000 Simpson Street
 White, Louis Leonard, 307 East 79 Street

Third Year Class

Altman, Harry, 915 Fox Street
 Amerman, Elmer Ellsworth, Stoutenberg Avenue, Maspeth, L. I., N.Y.
 Baron, Israel, 674 Madison Street, Brooklyn
 Benjamin, Harold, 37 High Street, Jersey City, N. J.
 Berg, Samuel, 92 South 13 Street, Newark, N. J.
 Berlowitz, Harry, 199 McKibben Street, Brooklyn
 Berman, Harry, *Box 418 White Plains, N. Y.* 121 East 109 Street
 Bernstein, Eugene, 1295 Fulton Avenue
 Bisher, William, 322½ E. 50 Street
 Bloom, Oscar, 113 Bandman Avenue, Brooklyn
 Blum, Harry, 31 Garden Street, Brooklyn
 Blum, Isador, 289 Reid Avenue, Brooklyn
 Blumenkranz, Nathaniel M. H., 704 Fifth Street
 Bonomo, Michael J., 86 Bedford Street, East Orange, N. J.
 Brody, Edward Leon, 140 Floyd Street, Brooklyn
 Buchholtz, Philip, *Ellenville, N. Y.* 817 East 5 Street
 Cady, Donald, W., A.B., 4 Boulevard, New Rochelle, N. Y.
 Cantor, Jacob, 141 Attorney Street
 Ciervo, Salvatore, 192 Grand Street
 Coffin, George J., A.B., 344 West 71 Street
 Cohen, Jacob, 35 West 117 Street
 Davidoff, Bernard, 276 Broome Street
 DeGraff, Arthur C., 524 Madison Avenue, Paterson, N.J.
 DePoto, Amedeo, *415 Grand Avenue, New Haven, Conn.*, 608 Crescent Avenue
 Deutsch, Joseph, 16 West 117 Street
 Dillon, Samuel, 1381 Washington Avenue
 Elisberg, Simon, 1390 Clay Avenue
 Epstein, Joseph, 1111 Southern Boulevard
 Fishberg, Mark I., 1526 Eastern Parkway, Brooklyn
 Funderburk, Nicholas A., 129 Lexington Avenue
 Gilman, Hyman, 1110 Forest Avenue
 Glaser, Emanuel, 842 Flatbush Avenue, Brooklyn

- Goebel, Martin, 120 Nassau Avenue, Brooklyn
 Goldberg, Isaac, 548 West 164 Street
 Goldstein, Solomon, 494 Sackman Street
 Gorfinkel, Arthur, 87 Waverly Street, Yonkers, N. Y.
 Habersack, Alex J., 840 Trinity Avenue
 Hart, Charles J., 216 East 39 Street
 Heaton, Claude E., 3089 Broadway. 129 Lexington Avenue
 Heyman, Arthur, 33 Hillside Ave., Newark, N. J.
 Higgins, Thomas A., 27 Beacon Avenue, Jersey City, N. J.
 Holzman, Abraham, 452 W. 163 Street
 Hornstein, Louis S., 305 Third Street, Jersey City, N. J.
 Isaacson, Barney, 457 Grand Street
 Jackson, John Wagner, *Fort Plain, N. Y.* Bellevue Hospital
 Karp, Hyman W., 417 Ralph Avenue, Brooklyn
 Katz, Edward, 128 *Union Street, Springfield, Mass.* 131 West 13
 Street
 Kava, Harry L., 33 West 129 Street
 Kelly, Raphael, 350 East 32 Street, Brooklyn
 Knapp, Victor, 65 Bay 32 Street, Brooklyn
 Kovnat, Maurice, 757 Trinity Avenue
 Kravitz, Daniel, 163 Stanton Street
 Last, Samuel E., 58 Meeker Avenue
 Lefkowitz, Louis, 317 Rivington Street
 Lerner, Charles, 104 Second Street
 Levin, Aaron, 64 East Broadway
 Levine, Joseph, 1892 Marmon Avenue
 Lubash, Samuel, 52 Freedom Avenue, Richmond Hill, L. I., N. Y.
 MacArthur, Clymont, North Branch, N. J., 152 East 22 Street
 Maslow, Herman, 480 Willoughby Avenue, Brooklyn
 Matus, Morris R., 1011 East 12 Street, Brooklyn
 Mensher, Ira W., 646 Bushwick Avenue, Brooklyn
 Miceli, John N., 316 West 27 Street
 Moore, John F., Jr., 133 East 30 Street
 Myers, Solomon, 18 Messerole Street, Brooklyn
 Nitzberg, Samuel, 670 Warwick Street, Brooklyn
 O'Connor, Harry A. D., *Jewell, Iowa.* 152 East 22 Street
 Olenik, Jacob, 1066 Morris Avenue
 Palevitz, Samuel, 740 East 181 Street
 Palley, Nathan, 371 Sutter Avenue, Brooklyn, N. Y.
 Perlowitz, Herman, 47 St. Nicholas Avenue
 Pietri, Raul, *Ponce, P. R.* 203 West 103 Street

- Riggs, William Webster, *Memphis, Tenn.* 144 East 37 Street
 Sarrow, Louis A., 102 West 115 Street
 Schusterson, William, 715 East 9 Street
 Scott, Walter L., 20 Hancock Avenue, Yonkers, N. Y.
 Schwartz, Robert, 283 South 5 Street, Brooklyn
 Seinfeld, Irving, 167 Harrison Avenue, Brooklyn
 Serafin, Peter J., B.S., 8 East Third Street
 Shapiro, Charles S., 324 Stone Avenue, Brooklyn
 Shapiro, Matthew, 90 Sheriff Street
 Sher, Maurice A., 77 McKibben Street, Brooklyn
 Sherman, Byron G., M.P.E., *Putnam, Conn.* 21 Fort Washington Avenue
 Sherman, Matthew H., 540 West 144 Street
 Shifrin, Leo A., 63 Park Row, Room 901
 Silver, Harry B., 294 Pulaski Street, Brooklyn
 Smolensky, Morris, 2041 Fifth Avenue
 Snyder, Charles T., 217 East 82 Street
 Speiser, Mortimer, 256 Rivington Street
 Sperber, Frank, 48 South Division Avenue. *Rockaway Beach L. I., N. Y.* 15 Pitt Street
 Stansky, Charles, 120 East 119 Street
 Steiner, Marcus, B.S., 247 Eldridge Street
 Sternman, Irving, 69 West 130 Street
 Tirnauer, Samuel, 1143 Lexington Avenue
 Tobias, Norman, 609 John Street, *Elmira, N. Y.* 19 East 115 Street
 Uhr, Nathaniel, 45 Pinehurst Avenue
 Wahrman, Julius, 57 St. Marks Place
 Wanderer, Henry, 279 East 3 Street
 Watson, James S., Jr., B.A., 127 East 19 Street
 Weintraub, Philip, 21 East 3 Street
 Weisberg, Charles L., 481 Claremont Parkway
 Weisberg, Isadore, 124 Forsyth Street
 Weiss, Jerome, 236 6 Avenue, Brooklyn
 Wiren, William E., 444 Third Avenue
 Wolfe, Louis, 229 East 70 Street
 Wood, Thornton H., 217 West 137 Street

Second Year Class

- Anderson, George E., B.A., 373 Madison Street, Brooklyn
 Azzara, Emanuel, 1264 Bushwick Ave., Brooklyn
 Barolsky, Joseph, 14½ West Street, Paterson, N. J.

- Berkow, Samuel G., 372 State Street, Perth Amboy, N. J. 128 Lexington Avenue
- Berlowitz, David, 105 Henry Street
- Bivings, Frank Lee, *Jakin, Ga.* 418 West 118 Street
- Bobrow, Morris, 1827 Clinton Avenue
- Borst, Adam S., 500 East 87 Street
- Breidenbach, Lester, 444 East 141 Street
- Broones, Otto, 224 Riverside Drive
- Candido, L. Joseph, 184 Belleville Avenue, Newark, N. J.
- Carey, Edward J., 37 Mozart Street, East Rutherford, N.J.
- Catalonello, Michael, 2723 Ft. Hamilton Avenue, Brooklyn
- Chmelnik, Abraham G., 186 Hall Avenue, Perth Amboy, N. J. 128 Lexington Avenue
- Cole, L. Frank, 35 Passaic Avenue, Garfield, N. J.
- Daiell, Hyman, 7306 Third Avenue, Brooklyn
- Darby, Richard T., 1732 Clay Avenue
- Davis, Julius, 1680 Third Avenue
- DeFronzo, Morando, 173 Newton Street, Newark, N. J.
- de la Chapelle, Clarence E., 293 Lenox Avenue
- Einhorn, Moses, 96 Main Street, Stamford, Conn.
- Emanuel, Obadiah, 1842 Seventh Avenue
- Feinberg, Nathan B., 2228 Second Avenue.
- Fine, Irwin A., 18 Winchester Street Hartford, Conn. 128 Lexington Avenue
- Framer, Abraham, 72 Suffolk Street
- Friedman, Jacob, 136 West 11 Street
- Friedman, Max, 49 Ludlow Street
- Frieman, David, 936 Intervale Avenue
- Geiger, William E., 187 McKibben Street, Brooklyn
- Goff, Frank J., 47 First Avenue, Long Branch, N. J.
- Goldberg, Harold H., 124 Fairmount Avenue, Newark, N. J.
- Goldman, Matthew, 2116 Walton Avenue
- Goldring, William, 2007 LaFontaine Avenue
- Gresser, Edward, 1185 Lexington Avenue
- Grossman, Alexander, 222 E. Broadway
- Handelsman, Benjamin, 252 Stockholm Street, Brooklyn
- Irwin, John H., 286 E. Sidney Avenue, Mount Vernon, N. Y.
- Jennings, Kenneth G., A.B., 181 Lincoln Road, Brooklyn
- Kalina, Emanuel F., 788 Lincoln Place, Brooklyn
- Klein, Leo L., 495 Second Avenue
- Kok, Jan Hendrik, 452 West 57 Street

- Kramer, Samuel E., 236 State Street, Perth Amboy, N. J.
Lotker, Aaron A., *Arctic House, Bridgeport, Conn.*, 307 Gould Hall,
University Heights
Low, Donald B., 43 *Highwood Avenue, Ridgewood, N. J.* 143 East
39 Street
Mahler, Abraham, 866 Tiffany Street
Marano, Michael A., 512 Adams Street, Hoboken, N. J.
Marraffino, Joseph, 800 Second Avenue
Meyer, Harry, 593 Beech Terrace
Morchand, Charles C., 973 Fox Street
Mufson, Samuel, 1260 Clay Avenue
Neifeld, Harold, 243 Hewes Street, Brooklyn
Perenyi, Ladislaus J., 243 East 61 Street
Rabiner, Max, 393 Kosciusko Street, Brooklyn
Rapaport, Reuben, 301 Hewes Street, Brooklyn
Reder, Milton, 564 Fox Street
Reilly, Vincent Romain, 2115 Arthur Avenue
Rieman, Aloysius P., 313 Highpoint Avenue, West Hoboken, N. J.
Rodgers, Mortimer W., 161 West 86 Street
Rosenfeld, Jack D., 870 Kelly Street
Rosett, Leonard, 1350 Clinton Avenue
Roy, Joseph N., 227 Berkeley Avenue, Bloomfield, N. J.
Rubinstein, Morris M., 12 Pike Street
Schechter, Samuel B., 454 East 140 Street
Schlossman, Saul, 540 Ninth Avenue
Schwetsky, Samuel Harold, 629 West 170 Street
Shapiro, Louis, 354 Belleville Avenue, Newark, N. J.
Shulman, Max J., A.B., 933 Avenue St. John
Sichel, Albert A., 639 Mamaroneck Avenue, Mamaroneck, N. Y.
Simchow, Morris, 48 East 103 Street
Skir, Isaac, 5 Eldridge Street
Smith, William J., 212 Spencer Street, Brooklyn
Soschin, Samuel, B.S., 1 Kearny Avenue, North Arlington, N. J.
Spillane, Timothy, Hampton, N. J.
Steinberg, Bernhard S., 1978 Madison Avenue
Stoloff, Emile G., 314 East Fourth Street
Studdiford, William E., 124 East 36 Street
Tamis, Abraham B., 744 East 175 Street
Tobin, James Francis, B.S., Suffield, Conn., 312 West 109 Street
Weiss, Moses A., 405 East 100 Street
Wenger, Hermann L., 153 Harrison Street, Paterson, N. J.

First Year Class

- Alvich, Joseph P., 2308 Crotona Avenue
 Antine, Leon, 1922 Crotona Parkway
 Appell, Paul H., 3 Meadow Street, Bristol, Conn.
 Armengol, José M., 5 de Mayo No. 27, Vera Cruz, Mexico. 330 West
 58 Street
 Ash, Samuel, 176 Spruce Street, Newark, N. J. 2251 University
 Avenue
 Ashley, Homer C., Winchester, Conn., 346 Lexington Avenue
 Astrom, Algot, 210 West 78 Street
 Badia, Vito, 1094 Second Avenue
 Batalsky, Leon, 1567 Fulton Avenue
 Battista, Anthony W., 600 Grand Avenue, New Haven, Conn.
 530 East 188 Street
 Ben Asher, Solomon, B.S., 108½ Clinton Avenue, Jersey City, N. J.
 Berger, William, Fort Montgomery, N. Y.
 Bergman, Beatrice, 506 Stone Avenue, Brooklyn
 Bickner, Alvah W., 170 Ridge Rd., Rutherford, N. J. 18 Waverly
 Place
 Bivings, Charles K., B.Ph., Jakin, Ga. 418 West 118 Street
 Black, Isidor, 84 Throop Avenue, Brooklyn
 Blank, Henry, Ph.G., 380 Bushwick Avenue, Brooklyn
 Blum, Max, 39 Frank Street, New Haven, Conn.
 Brandwein, Julius, 364 Tenth Avenue
 Brody, Philip, 43 Eldridge Street
 Bronstein, Joseph, 1356 Clinton Avenue
 Bunim, Louis, 64 Pike Street
 Bunsick, Philip, 815 East 170 Street
 Bussel, A. Harry, 1063 Morris Avenue
 Calderone, Frank A., 80 Terrace Avenue, Hempstead, L. I., N. Y.
 152 East 30 Street
 Caller, Solomon, 304 Bedford Avenue, Brooklyn
 Caltagirone, Joseph V., 152 Central Avenue, Brooklyn
 Cascardo, Louis J., 487 Central Avenue, Jersey City, N. J.
 Collins, Charles H., Saranac Lake, N. Y.
 Connell, Emmett J., A.B., 977 Summit Avenue, Jersey City, N. J.
 Crispell F. Harold, 1074 Washington Avenue
 Cronin, Harold, 2360 Ft. Independence Street
 Crosby, John G., Sc.B., Harpoot, Armenia. 1222 Brook Avenue
 Currie, Marie Edna, Keyport, N. J.
 D'Agostin, Henry, 434 Springfield Avenue, Summit, N. J.

- D'Angelo, Thomas, A.B., 128 Tory Street, Corona, L. I., N. Y.
deCaesar, Dominick, J., 1340 60 Street, Brooklyn
Disick, Bernard, 329 East 13 Street
Dolen, David J., 256 Seventh Avenue
Draffen, Harold W., *Grand Gorge N. Y.*, 115 West 183 Street
Duryea, Arthur W., 76 Aldrich Street, Roslindale, Mass.
Eisenstein, Charles, 775 East 185 Street
Esterson, Israel, 113 Second Street
Farley, James J., 522 West 185 Street
Fatowsky, Harold, 495 Claremont Parkway
Fialka, Solomon, 1468 Fifth Avenue
Finestone, Edward, 891 Tiffany Street
Finkel, Joshua, B.A., 125 Van Buren Street, Brooklyn
Fischer, Abraham, 1342 38 Street, Brooklyn
Fisher, Harry R., 1064 Findlay Avenue
Fleischer, Abraham J., 141 Attorney Street
Fraden, William, 182 Broome Street
Frank, Charles W., 59 East 104 Street
Frankel, Julius M., 1051 Boston Road
Frimel, Hyman, 1476 Brook Avenue
Galewski, Conrad, 56 West 112 Street
Garrick, Thomas J., A.B., 295 Lowell Street, Somerville, Mass.
Geldzahler, Louis Jesse, 49 West 117 Street
Godsick, William H., 647 East 5 Street
Goldberg, Jacob, A.B., 1211 Washington Avenue
Goldberg, Leon H., 1524 44 Street, Brooklyn
Goldberg, Rudolph, 130 Ninth Avenue
Goldberg, Sarah, 91 Eldridge Street
Goldstein, Bertram, 1696 Lexington Avenue
Goldstein, Louis, 1021 Intervale Avenue
Goorevitch, Abraham Solomon, B.E.E., 1464 Seabury Place
Gore, Albert P., 125 Gleane Street, Elmhurst, L. I., N.Y.
Gottlieb, Arthur, 904 Driggs Avenue, Brooklyn
Gottlieb, Bertram, Huntington, N. Y. 1884 Seventh Avenue
Grassi, Anthony J., 29 First Street
Greenberg, Morris, B.S., 1400 Eastern Parkway, Brooklyn
Greifinger, Marcus H., 180 Ferry Street, Newark, N. J.
Gross, Henry N., 85 Greenpoint Avenue, Brooklyn
Haller, William James, New Canaan, Conn.
Halprin, Harry, 138 Ludlow Street
Hediger, Ella M., 304 Moffat Street, Brooklyn

Herbert, Nathan, 1661 Pitkin Avenue, Brooklyn
Herrlin, John, Winthrop Avenue, Long Island City, N. Y.
Hugel, Louis, 849 Southern Boulevard
Ironson, Jesse, 364 Hopkinson Avenue, Brooklyn
Jacobson, Milton J., 542 Jerome Street, Brooklyn
Jonas, Joseph Q, 2153 Hughes Avenue
Kaplan, George, 925 DeKalb Avenue, Brooklyn
Kershner, David, 1216 College Avenue
Kibel, Israel, 635 East 138 Street
Korn, Louis, 58 Cannon Street
Koslin, Isidor, 132 Ludlow Street
Krell, Solomon, 146 Clinton Street
Kris, Joseph Harold, 1755 St. Johns Place, Brooklyn
Kruger, Alexander W., 153 53 Street, Brooklyn
Landes, Jacob, 14 East 120 Street
Lanza, Joseph, 8 Stradford Road, Flushing, N. Y.
Lehman, Julius 1769 Townsend Avenue
Leifer, Aaron, 1604 Eastern Parkway, Brooklyn
Lewis, Jacob, 28 East 106 Street
Liebman, Aaron, 351 East 10 Street
Lewitz, Benjamin M., 247 Audubon Avenue
London, Daniel, 83 Avenue B
Loori, William Andrew, 545 Pavonia Avenue, Jersey City, N. J.
Lowenfish, F. Philip, 91 Trinity Avenue
Lum, Mildred J., 114 East 59 Street
MacNairney, John G., 72 Washington Street, Harrison, N. J.
Maffey, Anthony A., 303 North 3 Street, Harrison, N. J.
Malcy, Louis, 1415 Fulton Avenue
Matez, Henry, 148 Bay 22 Street, Brooklyn
McKeown, Patrick J., 76 East Avenue, Long Island City, N. Y.
Merola, Vito J., 4216 Third Avenue
Miller, Jacob J., 854 East 167 Street
Mooney, Joseph W., 571 East 184 Street
Muscato, George, *Silver Creek, N. Y.* 221 Lexington Avenue
Neustaedter, Theodore, 1215 Park Avenue
O'Brien, Helen, 3221 Decatur Avenue
Oshinsky, Isidore, 1561 President Street, Brooklyn
Peisachowitz, Leon, 1320 Brook Avenue
Phillips, Charles, 99 Central Avenue, Brooklyn
Rabinowitz, Jacob R., 143 Division Street
Radetsky, Charles, 40 Forsyth Street

- Rednick, Meyer S., 1409 Prospect Avenue
 Ritchey, Edward N., 682 Illinois Street, Huron, S. D. 430 West
 118 Street
 Robertson, Grace M., 820 Second Pl., Plainfield, N. J. 114 East
 59 Street
 Rosen, Morris S., 702 East 176 Street
 Rosenthal, Edith C., A.B., 151 West 86 Street
 Rothstein, Isadore B., 17 Steuben Street, East Orange, N. J.
 Sachs, Wilbert, 1506 Hoe Avenue
 Scheindlinger, Morris I., 1605 University Avenue
 Scheiner, Philip, 1524 Charlotte Street
 Schindelheim, Samuel, 936 Kelly Street
 Schlesinger, Charles J., B.S., 43 Fifth Avenue
 Schlossman, Nathan, 95 Leonard Street, Brooklyn
 Schoenholtz, George
 Scimeca, Antonio A., 80 Houston Street
 Scranton, Charles Wallace, Bridgeville, N. J.
 Shahon, Henry, 1545 Fulton Avenue
 Sharon, Max, 296 South 4 Street, Brooklyn
 Sher, Frances Minerva, 1 Elliott Terrace, Rutherford, N. J.
 Silverstein, Isidor, 149 Stanton Street
 Skwirsky, Joseph, 833 East 170 Street
 Smith, George A., *Central Islip*, N. Y. 152 East 22 Street
 Sohn, Harry, 157 Broome Street
 Sonnenblick, Samuel, 588 Herkimer Street, Brooklyn
 Sposta, Dominick, 10 Spring Street
 Steierman, Charles, 111 Essex Street
 Sternbach, Abraham, 70 Riverdale Avenue, Yonkers, N. Y.
 Steuerwald, George E., 14 Kossuth Place, Brooklyn
 Streitl, Walter P., 8537 112 Street, Richmond Hill, L. I., N. Y.
 Sweeney, Cornelius F., 158 East Main Street, Amsterdam, N. Y.
 510 West 44 Street
 Taub, Samuel, 319 East 121 Street
 Teller, Frank, 1245 41 Street, Brooklyn
 Tendler, Morton J., 12 Edgar Street, New Haven, Conn. 2251
 University Avenue
 Tetelman, Michael, 475 East 145 Street
 Topper, Anna, A.B., 574 Nicholas Avenue
 Traum, Arthur A., 1888 Belmont Avenue
 Turner, Jacob H. B., 17 West 112 Street
 Viviani, John J., 182 Suydam Street, Brooklyn

Wanderman, David, 95 Warburton Avenue, Yonkers, N. Y.
 Watnick, Joseph Louis, 262 East Broadway
 Weintraub, Harry, 932 Tiffany Street
 Weintraub, William, 1014 East 156 Street
 Wiesenthal, Max L., 126 Seventh Street
 Winter, Leonard, 65 West 117 Street
 Wishnofsky, Max, 476 Sheffield Avenue, Brooklyn
 Wright, Hallock G., 300 West 49 Street
 Zatz, Robert, 180 Henry Street
 Zepf, Joseph Anthony, 2 *Fourth Avenue, Rensselaer, N. Y.* 152 East
 30 Street
 Zimmerman, Max, 879 New Jersey Avenue, Brooklyn
 Ziviello, Alphonse, 663 Crescent Avenue

SUMMARY

FOURTH YEAR.....	113
THIRD YEAR.....	106
SECOND YEAR.....	80
FIRST YEAR.....	166
SPECIAL STUDENTS.....	
DENTAL STUDENTS (dissection only).....	216
CORRESPONDENCE COURSE.....	145
GRAND TOTAL.....	826

GRADUATES 1920

- Alexander, Milton Henry, 2048 Mapes Avenue
 Alper, Jacques P., 164 Madison Street
 Amazalak, Edward S., Box 55, Hempstead, L. I., N. Y.
 Anopol, George, 502 West 139 Street
 Apperman, Isaac, 472 Gates Avenue, Brooklyn
 Arnold, J. Jacob, 1585 Madison Avenue
 Barbarito, William Nicholas, 435 Main Street, Danbury, Conn.
 Bendetson, Joseph S., 1324 43d Street, Brooklyn
 Ben Avi, Sigmund, 75 East Second Street
 Bloch, Harry, 359 East Jersey Street, Elizabeth, N. J.
 Bloom, Jacob M. 1018 East 179 Street
 Blum, Henry, 1390 Prospect Avenue
 Brody, Morton S., 10 Rutgers Place
 Buda, Mario Alfred, 401 East 16 Street
 Chianchiano, Giachino, 600 Marcy Avenue, Brooklyn
 Coe, Meyeron, 133 West 116 Street
 Cohen, Abraham, 97 Cortlandt Street, North Tarrytown, N. Y.
 Cohen, Moses, 1441 53 Street, Brooklyn
 Cumbler, George William, 78 27th Street, Elmhurst, L. I. N. Y.
 Curran, William Louis, North Adams, Mass.
 Decker, Albert, 180 Claremont Avenue
 DePietro, Joseph, 186 Spring Street
 DiGiorgi, Matthew, 338 East 21 Street
 Donheiser, Emanuel, 850 East 161 Street
 Fauerbach, Louis Jr., Sc.B. Madison, Wisconsin
 Federman, Samuel, 86 Grand Street, Hoboken, N. J.
 Feigin, Samuel, 1095 Dumont Avenue, Brooklyn
 Feinberg, Harris, 911 Tiffany Street
 Fine, Jacob, 81 Henry Street, Stamford, Conn.
 Fisher, Irwin, 146 Essex Street
 Ford, Francis, A.B., Gaskill Avenue, Jeanette, Pa.
 Frankel, Mandel, 353 Beekman Avenue
 Gochman, Harry Mitchel, 280 South 2 Street, Brooklyn
 Goldberg, Burtis Eugene, *Belgrove Drive, Arlington, N. J.* 117 East
 28 Street
 Greisman, Harry, 239 Sumner Avenue, Brooklyn
 Grimaldi, Americo John, 1914 7 Avenue, Tampa, Florida
 Hannan, Bernard D., *16 Rogers Street, Glens Falls, N. Y.* 129 Lex-
 ington Avenue
 Hechtman, Aaron, 17 Varet Street, Brooklyn

- Herrman, Harold C., 24 East 99 Street
Hirsch, John, 5213 Ft. Hamilton Avenue, Brooklyn
Ide, David, 69 East 109 Street
Jaffe, Henry Lewis, 58 Sack Street, Stratford, Conn.
Kastenbaum, Charles, 109 Second Avenue
Kera, Henry M., 181 Sheridan Avenue, Brooklyn
Klein, Samuel Moses, 55 West Jackson Avenue, Corona, L. I., N. Y.
Koblenz, William, 1397 Franklin Avenue
Kolb, John Martin, 821 N. American Street, Stockton, Cal. 725
Syms Street, West Hoboken, N. J.
Landon, H. Robert, 177 Norfolk Street
Lederfeind, Nathan, 418 West 40 Street,
Lehman, Max, 109 Second Avenue
Levy, Abraham Leonard, 76 Rockaway Avenue, Brooklyn, N. Y.
Lorenz, Adolph, 31 West 129 Street
Lueddecke, Roland Ehlers, 147 Sherman Street, Passaic, N. J. 117
East 28 Street
McManus, James Patrick, Towners, N. Y.
May, Israel, 98 Boerum Street, Brooklyn, N. Y.
Miller, Lester, 700 St. Marks Avenue, Brooklyn
Muzante, Joseph Bernard, Glen Cove, L. I., N. Y.
Newman, Louis I., 1427 Madison Avenue
Odén, Constantin Luther Ambrosius, Sc.B. *Belvidere, Ill.* 338 East
26 Street
Otto, Harold L., D.D.S. 385 Convent Avenue
Parry, Oliver Kesler, 3387 Highland Drive, Salt Lake City, Utah.
152 East 22 Street
Pierson, Herbert S. 216 Monroe Street, Syracuse, N. Y. 1726 Lex-
ington Avenue
Pindler, Louis Alden, 41 Floyd Street, Brooklyn
Pirunduni, Anthony, 148 Lorimer Street, Brooklyn
Posner, Abraham Charles, 273 Wyona Street, Brooklyn
Preas, Bruce Bushong, *Johnson City, Tenn.* 152 East 22 Street
Prewitt, Proviso V, A.M., 417 West 120 Street
Raab, Abraham, 675 East 170 Street
Robbins, Marc, 1689 St. Johns Place, Brooklyn
Reich, Samuel, 35 Covert Street, Brooklyn
Reich, William, 108 East 116 Street
Rembe, Walter J., 2540 Boulevard, Jersey City, N. J.
Rose, Ben-Henry, 119 Henry Street
Rose, Samuel Allison, 41 Henry Street, Stamford, Conn.

- Rosenblum, Jacob 504 West 158 Street
Rosenfield, Harold Herman, Main Street, Manville, R. I.
Ruskin, Simon Lyon, 1625 Eastern Parkway, Brooklyn
Scheer, Henry Isaac, Sc.B. 472 East 146 Street
Schepps, Jesse, 141 Stockton Street, Brooklyn
Schiff, Charles Haskell, 127 Vernon Avenue, Brooklyn
Schiff, Irwin, 916 Myrtle Avenue, Brooklyn
Schimpf, William Howard, 443 West 34 Street
Seidman, Philip, 1431 Madison Avenue
Seligman, Bernard, 277 South 5 Street, Brooklyn
Siragusa, James Joseph, 11 Vassar Street, *Dorchester, Mass.* 217
East 31 Street
Skolnick, Irving R., 205 Broome Street
Slayton, Maximillian Henry, 12 East 114 Street
Solk, Arthur George, 97 North Broadway, Long Branch, N. J. 217
East 31 Street
Sternberg, Bernard, 905 Gates Avenue, Brooklyn
Telson, David Robert, Beach 49 Street and Surf Avenue, Sea Gate,
L. I., N. Y.
Thron, Daniel, 1230 Southern Boulevard
Tolk, Nathan Robert, 581 East Washington Avenue, *Bridgeport, Conn.*
565 West 139 Street
Weinberg, Jacob, 372 Alabama Avenue, Brooklyn
Weinstein, Sydney D., 91 Utica Avenue, Brooklyn
Weinstock, Louis, 117 First Avenue
Wellen, Irwin, 22 East 109 Street
Wertheim, Hippolyte Marcus, 1000 Simpson Street
White, Louis Leonard, 307 East 79 Street

ALUMNI SOCIETY

The New York University Corporation, upon approval by the Bellevue Hospital Medical College Corporation of the consolidation of the two medical colleges, enacted a statute by which New York University adopted as her own alumni all graduates of the Bellevue Hospital Medical College. Their names have accordingly been placed upon the roll of University alumni with those of the University Medical College.

FORM OF BEQUEST

I give, devise, and bequeath to New York University, an educational institution of the State of New York, and located in the city of New York, the sum of \$.....
.....
for.....(specific purposes, unless bequest
is to be used at the discretion of the Council of the University).

ADMISSION TO THE MEDICAL COLLEGE

COLLEGE REQUIREMENTS: All candidates must present evidence of the completion of two years of college work (at least 60 semester hours) taken in a recognized college or university toward the degree of A.B. or Sc.B., including at least 12 semester hours of chemistry; 8 semester hours of physics; 8 semester hours of biology; 6 semester hours of English and a modern foreign language. This is also a **STATE REQUIREMENT** for the medical student qualifying certificate which is required of all those desiring to study or practice medicine in the State of New York.

I respectfully apply for admission in September, 19.. to the University and Bellevue Hospital Medical College:

Name.
Date and place of birth.
If foreign born, is father a citizen?
If father is not a citizen, state whether 1st papers have been obtained.
Name of high school attended.
Number of years attended.

	Weeks	Lab. Hrs. per wk.	Lect. Hrs. per wk.	Rec. Hrs. per wk.
Was CHEMISTRY included?				
Was PHYSICS included?				
Was BIOLOGY included?				
Was ENGLISH included?				
MODERN LANGUAGE (which)?				
Name of College attended.				
Upon what admitted? (units, high school graduation, examinations)				
How long did you attend?				
Is this work credited toward degree?			Degree? (A.B. or Sc.B.)	

	Weeks	Lab. Hrs. per wk.	Lect. Hrs. per wk.	Rec. Hrs. per wk.
Was CHEMISTRY included?				
Was PHYSICS included?				
Was BIOLOGY included?				
Was ENGLISH included?				
MODERN LANGUAGE (which)?				
If you have a DEGREE, give degree and college.				

Signature

Home Address

City Address

This blank must be filed in the office of the secretary with a certificate of moral character.

If the applicant is applying for admission to advanced standing this blank must be accompanied by a certificate of the completion of medical work. Candidates are not accepted with conditions and are required to pass entrance examination. The passing of the partial licensing examinations in anatomy, physiology, and chemistry will be accepted for admission to the third year class in lieu of the college examinations in these subjects.



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New York University

At University Heights

College of Arts and Pure Science
College of Engineering
Summer School

At Washington Square

School of Commerce
School of Pedagogy
School of Law
Washington Square College
Graduate School
School for Teachers of Retail Selling
Summer School
Extramural Division

At Bellevue Hospital

Medical College
Veterinary College

At Wall Street

Wall Street Division of the School
of Commerce
Summer School